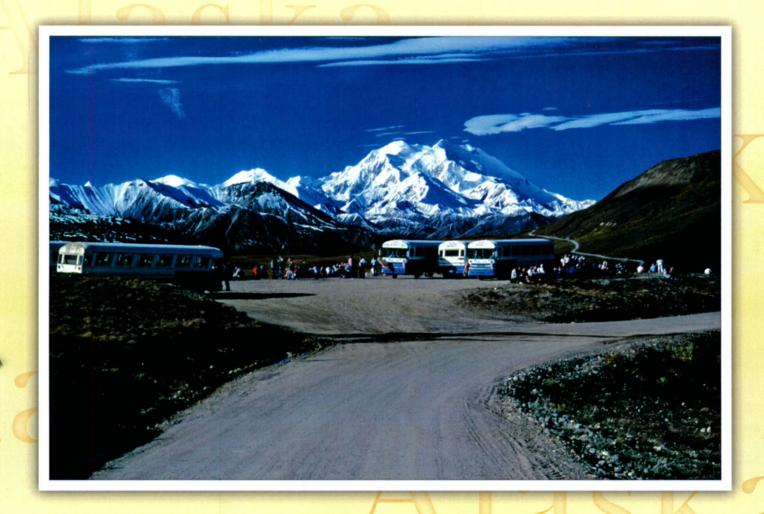


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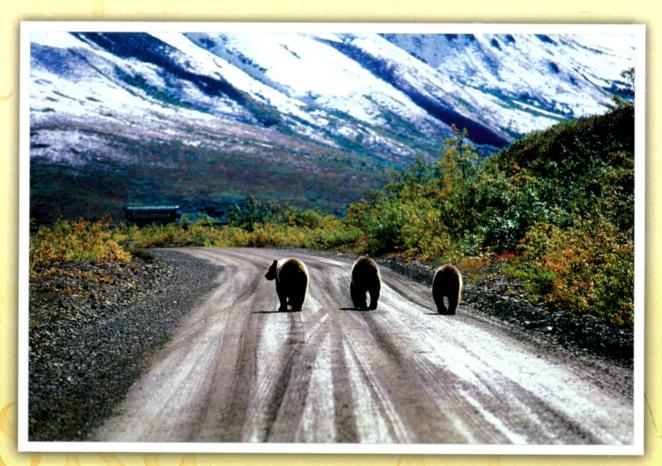
An Administrative History of Denali National Park and Preserve, Volume 2



National Park Service U.S. Department of the Interior



Alaska



"The National Park Service preserves unimpaired ... natural and cultural resources and values ... for the enjoyment, education, and inspiration of this and future generations."

- NPS mission statement

Chapter Eleven: Interpretive Issues; The Park from the Visitor's Point of View

The first several chapters of this study have detailed the steps that various major groups over the years—Congress, the National Park Service, the Alaska Railroad, the Alaska Road Commission, the State of Alaska, concessioners, advocacy organizations, and other entities—have played during the park's 90-year history. The activities undertaken by many if not most of these groups had either a direct or indirect effect on the park's visitors. This chapter, by contrast, emphasizes the other end of the telescope, so to speak. Of interest in this chapter is how visitors, over the years, have been attracted to the park, what their perceptions of the park have been, how the experiences of package-tour visitors have differed from those of independent travelers, and what visitor activities have been offered in the park.

Park Interpretation

During the "Cabins-and-Snowshoes Era"

As Chapter 3 notes, Congress established Mount McKinley National Park in 1917. Harry Karstens, the park's first employee, arrived at McKinley Park Station in 1921. For the time being, Karstens was the sole park employee, although by the end of that year he had hired the park's first ranger.

Development proceeded soon afterward. In early 1922, Alaska Engineering Commission crews based at McKinley Park Station had completed the majestic Riley Creek Bridge, and by June 1923 they had completed the last remaining construction hurdles: the completion of a bridge over the Tanana River, and the conversion of the old Tanana Valley Railroad tracks from narrow gauge to standard gauge. Just a month later, President Warren G. Harding dedicated the Alaska Railroad at the "golden spike" ceremony just north of Nenana. After June 1923, passengers were able to ride from Seward all the way to Fairbanks in the same train car; the train's schedule, however, was such that those hoping to visit Mount McKinley National Park typically detrained in the late night or early morning hours.

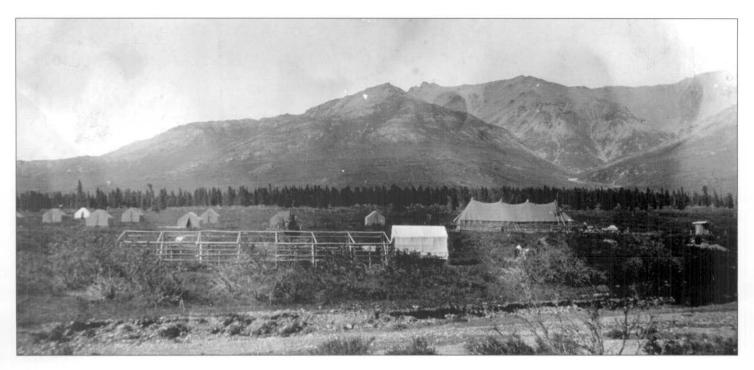
Despite the construction-related impediments, a few early visitors filtered into the park, some as early as the completion of the rail line to McKinley Park Station. During the summer of 1922 the local railroad station was a rude, converted boxcar; the only local accommodation was Maurice Morino's rustic "Mount McKinley Park Hotel," a roadhouse that had been completed the previous December. The park, at this time, lacked a concessioner; the park's eastern boundary was

four miles west of the tracks; and the only route connecting the railroad station to parkland was a rough trail that the Alaska Road Commission had just laid out. Given those conditions, it is perhaps not surprising that Karstens and his staff recorded just seven park visitors that year. By the following year the NPS had selected its first concessioner—Dan Kennedy—and the Alaska Road Commission had bladed out its first two miles of road west from the railroad depot. Kennedy, for his part, laid out a rustic camp just east of Savage River. Visitation into the park, however, remained anemic; although 217 people got off the train that summer at McKinley Park Station, only 34 visitors ascended the trail and entered the park. Tourism in 1924 was not much better; although the road was by now extended almost all the way to Kennedy's Savage River Camp, continuing difficulties with train schedules limited the number of park visitors to just 62. The level of overall Alaska tourism during this period, it must be noted, was greater than it had ever been before, and by this time businesses in many towns, both along the Pacific Coast and in the Interior as well, were benefiting from the increasing numbers of tourists. Tourism at that time, however, was a mere shadow of what it is today; in all probability, fewer than 10,000 tourists visited Alaska each summer.2

Tourism at Mount McKinley finally began to come into its own in 1925. The Mount McKinley Tourist and Transportation Company-minus Dan Kennedy, who had helped establish the firm a year earlier—was the park's concessioner that year; the company was run by Fairbanks mayor Thomas Marquam and Richardson Highway Transportation Company chief James L. Galen, while Robert Sheldon served as camp manager.3 These three men were well-connected and wellfunded. They were experienced with tourists and respected throughout the territory, and for more than a decade they proved to be ideal concessioners. They provided accommodations that were well-suited to the park's visitors. The concessioner thus gave tourists the proper balance of comfort and adventure, and made a consistent profit while doing so.

During the period in which the Mount McKinley Tourist and Transportation Company operated as the sole park concessioner, most visitors to the Alaska Railbelt took package tours that combined the services offered by the major transportation carriers. By the early 1920s, the

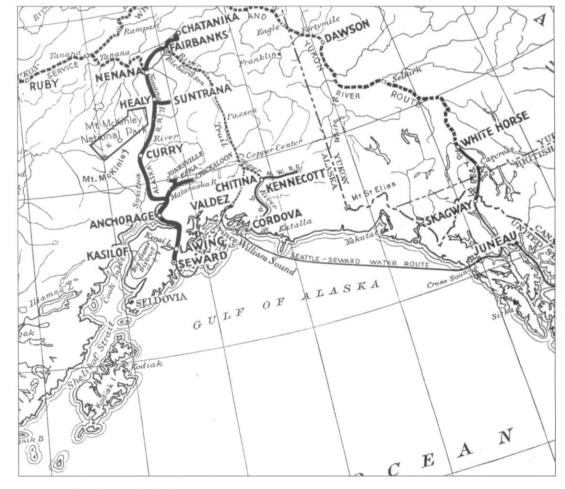
Sled dog demonstration, July 1959. DENA 11-60, Denali National Park and Preserve Museum Collection



During its earliest years, Savage Camp was a small collection of temporary tent structures: a horse barn and corral in the center, with a main tent structure to the right, and individual sleeping tents to the left. Karstens Library Collection #1476

main inland carriers were the Copper River and Northwestern Railroad, which in 1911 had completed its line from Cordova to Chitina and on to the Kennecott copper mine; the Richardson Highway Transportation Company, which hauled stages (small buses) over the former Valdez-Fairbanks wagon road; the Alaska Railroad, noted above, which opened to through traffic in 1923; and the White Pass and Yukon Route, which in 1922 began to offer direct steamboat service between Nenana and Dawson City, Yukon Territory.⁴

In the first two years after the Alaska Railroad's completion, there was little coordination, on



Transportation routes of the 1920s package tours are shown here, and involved several modes including steamship, railroad, river steamer and overland road. Alaska's "Great Circle Tour" via the Alaska Railroad, Yukon River, and White Pass & Yukon Railway required 28 to 30 days of travel. Karstens Library Collection, Alaska Railroad Brochure 1927

either pricing or schedules, between these transportation companies. But during the winter of 1923-24, the various carriers worked out a "Gentlemen's Agreement" that pledged greater cooperation, and thereafter most tourists visiting inland Alaska were part of a tour package. The "Great Circle Tour" or "Yukon Belt Tour" combined a Yukon River steamboat trip with an Alaska Railroad trip. The "Golden Belt Tour" combined an Alaska Railroad trip with a ride along the Richardson Highway and, optionally, a ride on the Copper River and Northwestern Railroad. Still others adopted the "All-Rail Tour" and took an Alaska Railroad round trip from Seward to Fairbanks and back. Because Mount McKinley was a major territorial icon—the Alaska Railroad, in fact, adopted "the Mount McKinley Route" as its slogan in 1924—taking a trip through the area was a primary destination of most Alaska visitors, and beginning in the mid-1920s many thousands of visitors marveled at Mount McKinley through the windows of a train car. Tour packages, moreover, typically gave visitors the option to detrain at McKinley Park

sioner's auto stages and were then escorted up to Savage River camp, twelve miles away. (See Chapter 4.) Savage Camp, which was substantially expanded and improved in 1926, was the tourists' primary park destination, and the great majority of park tourists spent all of their evenings there.6 One of the most popular tours that departed from camp was the "Big Game Drive," which was a nine-mile horse-drawn stagecoach or automobile trip up the Savage River valley to "Caribou Camp" at its head; brochures noted that sheep, caribou, bears, and foxes might be seen along the route.7 The Alaska Road Commission, supporting the company's effort, improved this route during the summer of 1927. The following year, the ARC chipped in again and roughed out a two-mile pack trail down the west side of the Savage River, beginning at the bridge, and during the late 1920s and early 1930s the concessioner offered horseback trips over the route. To foster access and provide an additional activity, the ARC bladed out an airfield at Savage Camp in 1930, after which scenic flights were periodically offered to adventurous tourists.



Savage Camp provided park visitors with accommodations, meals and activities. The family pictured above travelled by stagecoach along the Big Game Drive to the headwaters of Savage River where they were served lunch. Candy Waugaman Collection

Station for either 24 or 48 hours before resuming their travels. Park visitation totals, however, suggest that a fairly strong majority of Alaska Railroad tourists—regardless of the tour package they selected—thrilled to views of Mt. McKinley from a train window but chose not to head west into the park.⁵

Those tourists who opted for a McKinley Park vacation were met at the station by the conces-

For the relatively few tourists who were able to arrange a park visit that exceeded 48 hours, the concessioner offered many ways to see the more remote portions of the park. One two-day saddle-horse trip, for example, took the visitor up the "Big Game Drive" route to Caribou Camp; it then headed west into the upper Sanctuary River drainage south of Double Mountain before descending the valley to the road. Another saddle horse offering was a trip to the concessioner's



Park superintendent Harry Karstens, seen center above, often stopped at Savage Camp and entertained visitors with stories of his Mt. McKinley climb. Karstens Library Collection #844

Igloo tent camp via Caribou Creek and the northern slopes of Double Mountain. And for the most dedicated adventurers, eight-day saddle horse trips could be taken all the way to the Copper Mountain area and the remarkable scenery surrounding Muldrow Glacier. In order to support these trips, the concessioner built small tent camps at Toklat River and Copper Mountain as well as at Igloo Creek. These trips, by necessity, were modified or eliminated altogether when construction of the park road made these previously-distant points more accessible. As park road construction progressed farther into the park, visitors were taken to more distant road destinations on "interpretive" auto trips.

What visitors learned while visiting the park was an eclectic mix of what the Alaska tourist brochures, the concessioner, and the park provided them. Contemporary accounts suggest that camp manager Robert Sheldon, along with other concessions personnel, provided most of the on-the-spot interpretation to park visitors. NPS staff, at the time, was so preoccupied with game patrols, building construction, and other tasks that most rangers and other park personnel had relatively little direct contact with visitors. Supt. Karstens, however, frequently stopped at Savage Camp and told visitors about his Mount McKinley ascent, and at headquarters, rangers as early as 1926 were catering to curious visitors who stopped at the

newly-moved kennels; "the Alaskan sled-dogs," Karstens wrote, "are always a source of interest to our park visitors here."8

Park personnel had other interpretive jobs, too. During the mid-1920s, Karstens spent "a great deal of time ... in answering letters of inquiring from prospective visitors, etc." He complained that "in the absence of a park folder, it is necessary to write quite lengthy letters on the various topics of interest." During the winter of 1925-26, park staff began assembling the first park interpretive folder, hoping to have it ready by the following summer. In 1927 the first such guide appeared, bearing the rather inelegant title Rules and Regulations, Mount McKinley National Park, Alaska. Two years later, an updated and expanded product appeared, called Circular of General Information Regarding Mount McKinley National Park, Alaska.9 Ever since the 1920s, the agency has had either booklets or brochures available to park visitors.10

Park staff also reached out to provide information to other Alaskans. In April 1924, informal weekly or bi-weekly "news notes" about the park and the McKinley Park community began appearing in the major Railbelt newspapers. By July 1927, these tidbits—which were probably written by the park's clerk, Ralph Mackie—had evolved into the "McKinley Parklets." Later called



As this July 1, 1927 photo shows, park visitors stopped by the superintendent's office at park headquarters on their way from the railroad station to their destination at Savage Camp. Haskell Photo, DENA #14976, Denali National Park and Preserve Museum Collection

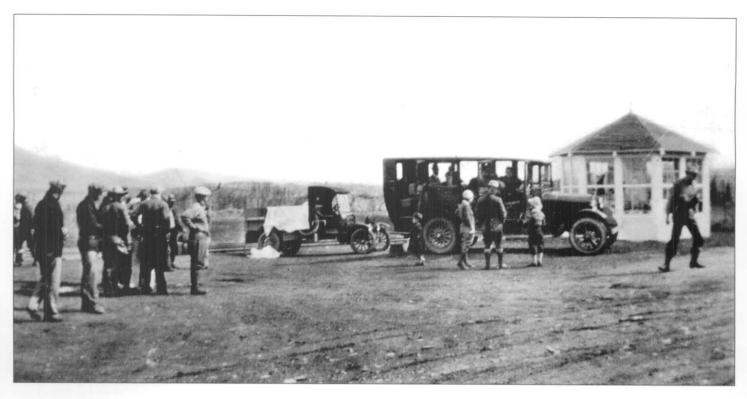
"McKinley Park News," these continued at least until the mid-1930s." $\,$

During the depths of the Great Depression, the park established the first inklings of an interpretive program. In mid-May 1932, well-known wildlife biologist Joseph M. Dixon arrived at the park for a summer-long faunal study (see Chapter 12), and accompanying him during much of his field work was a newly-appointed ranger, David Kaye. The two, according to Superintendent Harry Liek, were "spending much time studying conditions among the wild animals with the view of determining the cause for our great

losses in sheep." Liek noted that Kaye "has taken to the naturalist work with a vim," and by the end of June he had given seven "lectures on the subjects." He gave additional lectures in July.¹² Dixon, during the summer, took "exceptionally fine colored slides" of the park's animal and plant life, and beginning in 1933, Supt. Liek repeatedly gave two different talks to the assembled Savage Camp visitors: one that featured the park's plant and animal species, the other (complete with motion-picture footage) detailing the ascent of Mount McKinley that he, Alfred Lindley, Erling Strom and Grant Pearson had undertaken the previous year.¹³ The following year, Liek followed

Ranger Aubrey F. Houston presented interpretive talks about the flora and fauna of the park to Savage Camp guests, as seen in this photograph taken near the camp. Ickes Collection, B75-175-331, Anchorage Museum of History & Art





This 1929 photo shows the six-sided interpretive kiosk, and park visitors at the McKinley Station railroad depot being met by the Mt. McKinley Tourist & Transportation Company touring cars. Herbert Heller Collection, 79-44-1305, University of Alaska Fairbanks Archive

a similar pattern; he gave 20 slide shows and 6 motion-picture presentations at Savage Camp. 14

In 1935, the park attracted 877 visitors, more than had visited in any year since 1930. In response, Liek asked Aubrey Houston, who had been a park ranger for the past year, to take over Savage Camp interpretive duties. Houston, that summer, gave talks on the park's flora and fauna.15 The following summer, with visitation at an all-time high, Houston continued his Savage Camp talks; in addition, the superintendent invited visitors to his residence at headquarters and gave a number of talks (accompanied by movie footage) about his Mount McKinley ascent.16 In 1937, both the mountaineering and biology programs were again shown; Liek gave most of his programs at the park headquarters, while Edward (Ted) Ogston, along with Houston, conducted the flora and fauna program at Savage River Camp.¹⁷ The concessioner, since 1935, had operated a lunch station at Camp Denali (at Mile 66 on the park road, where Camp Eielson was later located), but the NPS made no attempt during this period to conduct interpretive activities either here or at any other place west of Savage River Camp.

Interpretive Growth, 1938-1956

By 1938, change was in the air. Under federal auspices, a large hotel was being constructed adjacent to the McKinley Park railroad station. That summer, however, the NPS moved to expand its interpretive offerings at Savage River Camp. As before, Aubrey Houston and Harry Liek continued to provide programs on the park's flora and fauna and the 1932 ascent, respectively. In

addition, Houston began offering nature walks in the Savage Camp area (in midsummer these were held almost daily), and he also led occasional auto caravan trips out the park road. Houston, at one point, even gave a flora-and-fauna talk to the residents of the new Civilian Conservation Corps camp.¹⁸ A short-lived "museum"—which may also have been Houston's handiwork—was housed within a six-sided kiosk near the railroad depot. Years later, a writer who had spent time at the park in 1938 recalled that "visitors stood outside the small structure and looked inside at wildlife and photo displays."¹⁹

The new McKinley Park Hotel opened on June 1, 1939, and that summer the park's interpretive activities shifted accordingly. According to new superintendent Frank Been, "the hotel management has cooperated in providing adequate space and seating facilities and welcomes this means for entertaining its guests. Needless to say, visitors have been most appreciative of this service." Ted Ogston gave the lectures for most of the summer; after his late-August departure, Senior Clerk Gerald Janes filled in for the remainder of the season. Been was eager to offer what he termed an "active educational service" to the visiting public. To fulfill that goal, he assigned a ranger to accompany each of the bus trips that the concessioner sent out the park road. (As noted in Chapter 5, the park's concessioner and bus-trip provider was still the Mount McKinley Tourist and Transportation Company, and it would remain that way until the close of the 1941 season.) The NPS's on-board interpretive service, which was conducted by Louis Corbley but



This 1939 photo shows (left to right) the interpretive kiosk, the McKinley Station railroad depot, and the Mt. McKinley Tourist & Transportation Company warehouse. DENA 4-72, Denali National Park and Preserve Museum Collection

implemented by John Rumohr and Ted Ogston, allowed NPS rangers the opportunity to personally interact with almost all of the park's 2,262 visitors that year.²⁰

Been, unlike the park's two previous superintendents, had experience as a park naturalist, and he obviously enjoyed his former job.²¹ Midway through the 1939 season, he wrote to agency director Arno Cammerer about the park's newly-expanded interpretive program:

The sourdough park rangers of Mount McKinley National Park have become naturalists and lecturers in the program for public contacts established here. Chief Ranger Corbley and Ranger Rumohr, hard bitten Alaskans from way back, and Ranger Ogston ... are showing their mettle in an activity which is a far cry from mushing dog teams. The fine spirit which the men have shown in this educational work is almost inspirational.

Due to the small ranger force and lack of maintenance crew, the rangers have been jacks of all trades. Hence, enforced occupation on maintenance jobs ... has kept the rangers from one of their most important duties—direct service to park visitors. The presence of the CCC camp has liberated the rangers to a large extent so that we have felt free to establish a definite educational program.

When the train bearing tourists arrives, a ranger is at the station to meet the group and accompanies it to the

hotel. There by moving about among the new arrivals, answering questions and being generally pleasant, a National Park Service contact is established. From the hotel, bus trips embark for sight-seeing and to carry people to Camp Eielson, a tent hotel sixty-six miles inside the park. A ranger accompanies each bus. If there are more buses than rangers, the men move from one conveyance to the other during the trip...

A unique feature of these trips is the night time travel. Usually, departure from the hotel is in the afternoon and causes the buses to return about midnight or later. One party, a few weeks ago, started out just after midnight and returned for a late breakfast. ... The rangers accompany these expeditions with fine spirit and the tourists enjoy them because there is no darkness. In fact, night time offers the greatest possibility for seeing that unforgettable spectacle, Mount McKinley, as the clouds are less apt to obscure the view.

At the hotel, illustrated lectures are given in the evening; or during the day, if the arrangement of groups justifies a day time presentation. As windows must be darkened for either day or night lectures, the conditions are practically the same.

A feature of constant attraction, to which many visitors return during their stay in the park, is the kennel of Alaska huskies. These fine friendly animals are always as glad to see the visitors as the latter are the former. Frequently, the rangers demonstrate the use of dog sleds by harnessing up a team. Then excitement prevails for all—the dogs are raring to go, rangers at wit's end to keep dogs and sled on even keel and tourists shouting and hopping around attempting to photograph the melee. ... The pleasure of the tourists is increased because of a rather general impression that huskies are savage beasts.

To simplify and improve the exhibition of this typically Alaskan institution, Ranger Rumohr is working out a device for placing a dog sled on inconspicuous wheels. Then we expect to be able to give the dogs much needed exercise as well as to provide more adequate demonstrations. As dog teams are giving way to airplanes, we hope that the McKinley Park huskies will always be retained as part of the historical interest of the park as well as of the Territory.²²

In 1940, the interpretive program was largely a continuation of the previous year's activities, and Supt. Been continued to stress the importance of interpretation—which included both the lectures and the guide service—in park operations. There were, in addition, two new activities. One, conducted occasionally, was a ranger-led hike from the park hotel to Horseshoe Lake. (This 1.5-mile trail was completed by Alaska Road Commission personnel during the summer of 1940.) In addition, rangers began sled-dog demonstrations that year at park headquarters; they did so in recog-

nition of the consistent fondness that visitors showed toward sled dogs, and because sled dogs were a well-known Alaska icon. Been, writing to doubtlessly-skeptical superiors in Washington, noted that "the hitching up and 'mushing' of a dog team, which demonstration is made possible by having a sled mounted on rubber tired wheels, never fails to arouse the tourists' enthusiasm and many consider it the high point of their visit." ²³

Been, pleased by the public's response to his interpretive innovations, moved to establish a new, seasonal ranger-naturalist position at the park. In June 1941 Herbert Brazil, a University of Alaska graduate student, commenced work. That summer, Brazil shouldered most of the park's interpretive program responsibilities, which consisted of hotel lectures, bus trips, sled dog demonstrations, and guided hikes. He performed those duties admirably; because of time conflicts, Supt. Been and the park's equipment operator, William Clemons, also led a number of interpretive activities that summer.²⁴

Given the onset of World War II, Alaska was closed to civilian tourism for the duration, and in 1942 only 63 visitors were recorded at Mount McKinley National Park. But military officials showed a continuing interest in the park, and on April 10, 1943, the park hotel became the home base for the Mount McKinley U.S. Army Recreation Camp, and for the next two years military personnel from throughout Alaska came to the park for much-needed rest and relaxation. Most of the facilities that the soldiers used were located in the immediate vicinity of the hotel and were provided by the army. NPS staff, however, did what they could to provide recreational opportunities. The onset of war had severely reduced the number of park employees; in June and July 1942,



In 1939, ranger John Rumohr experimented with attaching wheels to a dog sled so it could be used for summer sled dog demonstrations. No other national park unit offered this interpretive activity, which was begun on a full-time basis in 1940. DENA 11-135, Denali National Park and Preserve Museum Collection



This 1940 photo shows the sled dog demonstration held at the park's dog kennels near headquarters. Tour buses brought visitors right up to the kennels area. DENA 11-13.5, Denali National Park and Preserve Museum Collection

for example, there were just two people on the park's payroll. But three new employees signed up over the next few months, and in April 1943 all five helped welcome the troops to the park hotel.

During the first several months after the recreation camp opened, Acting Superintendent Grant Pearson gave a number of lectures and showed motion pictures of his 1932 climb up Mount McKinley. Rangers John Rumohr and Oscar Dick, working out of the hotel, showed motion pictures that wildlife biologist Adolph Murie had filmed four years earlier. They also gave talks and conducted dog-sled demonstrations, and beginning in June they accompanied several groups that drove out the park road. The remaining park staff, Principal Clerk Louis Maupin and Clerk-Stenographer Raye Ann Ayers, remained at headquarters where they provided interpretive information and answered visitors' questions.²⁵

Another addition to the interpretive program was the park museum, which opened in June 1943. The museum, apparently the result of the efforts of Wildlife Ranger Oscar Dick, was located in the original (1925) superintendent's office, at the north edge of the headquarters complex. Grant Pearson noted that the museum, as originally constituted, "contains trophies of some of our better known animals and a flower display." He felt that Dick "did a remarkable job with meager material on hand ... we have had many fine comments on it." That fall, longtime Kantishna resi-

dent Fannie Quigley donated "several interesting items to be placed on display," to which were added items from the 1942 equipment-testing expedition and other accumulated memorabilia. During the war most hotel residents ventured up to headquarters during their stay, and many of those who toured the headquarters area spent a few minutes at the "little log museum." ²⁶

By August 1943, the U.S. Army had issued a 30-page booklet outlining the military's recreation program at the park. NPS interpretation, however, suffered that summer; because park employees were obligated to take on a wide range of administrative duties, certain parts of the interpretive program had to be eliminated. Hotel-area interpretation, for example, was limited to "regular illustrated talks." These talks, supplemented by occasional staff-led tours of the headquarters area, continued until the recreation camp closed down in early 1945.²⁷

Because wartime restrictions remained in effect, Alaska remained off-limits to Outside residents during the summer of 1945. The park attracted some Alaskans: military officers, Anchorage business people, and scattered tourists. The hotel, however, was closed, so those that came either camped, stayed at park headquarters, or overnighted at the Wonder Lake Ranger Station. Given the small numbers involved, the only interpretation carried on was when visitors toured the park museum.²⁸

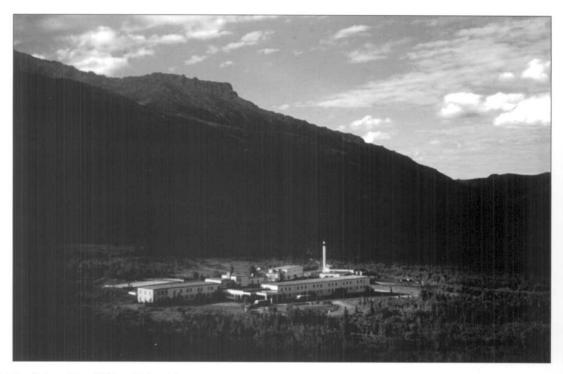


Constructed in 1926 as the superintendent's office at the current park headquarters, this building was converted, in its original location, shown here, into the park museum in 1943. It served as such until 1950 when it was moved to the maintenance area of park headquarters and used as an office. DENA 5-2, Denali National Park and Preserve Museum Collection

In the spring of 1946, the hotel opened for the first time in 15 months, and for the first time the Alaska Railroad was the active operator of not only the McKinley Park Hotel but the park concessions contract as well. ²⁹ That summer, "illustrated talks were given to each group of visitors" to the park hotel. In addition, rangers rode in the concessioner's buses with groups of visitors "to explain the wonders of the Park to them." The only literature available for distribution that year was the park information circular.³⁰ But the following summer, additional publications became available; these included a U.S. Geological Survey

map of Alaska and biologist Joseph Dixon's book, *Birds and Mammals of Mount McKinley National Park*, which had been published in 1938. Adolph Murie's *The Wolves of Mount McKinley* was added the following year; the book, in its third edition, sold for 75 cents.³¹

Beginning in the summer of 1947, the McKinley Park Hotel was open all year round, and NPS rangers did their best to provide interpretation to all park visitors. Illustrated talks at the hotel remained the primary interpretive vehicle during this period; they were given on a regular basis in



When the McKinley Park Hotel opened in 1939, it provided accommodations and meals and it became the center of most interpretive activities for park visitors. This 1949 photo shows two tour buses in front of the hotel.

the summertime (as often as every other night in July 1948), but during the off-season, talks were provided only "when the hotel manager advised them that the house count was sufficient." This usually happened 3 to 8 times per month.³² Rangers did not ride along on bus trips during the late 1940s, but they occasionally showed Murie's wildlife film or assembled slide programs. In July 1949, park management stationed one ranger at "Wonder Lake during the month to furnish information to the visitors to that area," and in addition, occasional illustrated talks were given

mer ranger who had transferred to the park two years earlier from Lake Texoma National Recreation Area along the Texas-Oklahoma border.³⁵ Nancarrow was the sole interpretive employee for the time being, but in June 1952 James Castren signed on as a new seasonal interpreter. The following year, Castren's position was replaced by Theodore Lachelt; Nancarrow, meanwhile, stayed on. Ever since that time, the park has had a permanent position (either as naturalist or interpreter) to manage the park's interpretive activities.³⁶



Having arrived as a park ranger in 1948, William Nancarrow, center, became the first full-time, year-round park naturalist in 1951. He later served at the park as a carpenter and Buildings & Utilities foreman, retiring in 1981. Bruce Thompson Collection, Denali National Park and Preserve Museum Collection

in the Anchorage or Fairbanks areas.³³ The park museum remained open, on request, throughout this period; new items added during the late 1940s included the pelt of a beaver killed by a railroad "speeder," a red fox caught in a wolf trap, a collection of mosses and lichens, and a three-dimensional model of the Mount McKinley massif, the latter created by wildlife ranger Harold Booth.³⁴

In the summer of 1950 the Korean War began, and for the next three years the hotel remained open each summer for civilian tourists, but during the intervening winters, either Army or Air Force personnel filled the hotel seeking relaxation and rest. To assist with the interpretive program, the park in June 1950 hired Elton S. Thayer as a seasonal ranger-naturalist; his was the first such hire in nine years. Thayer remained for the summer. The following June, the park hired its first full-time, year-round park naturalist: William Nancarrow, a for-

Perhaps because of these additional staff, the park was able to broaden its summertime interpretive program. In 1950 Elton Thayer, assisted at times by park ranger James Orr, offered daily illustrated talks at the park hotel on such subjects as "the Wildlife of Denali," "the Famous 1932 Ascent of Mt. McKinley," and "the 1942 Army Expedition to the Summit of Mt. McKinley." They also led nature walks, primarily to Horseshoe Lake. And on occasion, park staff conducted bus tours out the McKinley park road.³⁷ The following summer, Nancarrow crafted an interpretive program that consisted of "a 15-minute talk on the policy, history, size and interesting features of the park" followed by two short movies: "Climb of Mt. McKinley" (about the Army's 1942 McKinley expedition) and "The Wildlife of the Park" (with 1940 footage from Adolph Murie).38 But by 1952, he had discarded the rescue-expedition film and replaced it with a second wildlife movie. He and Castren also offered two slide programs, they led hikes to Horseshoe Lake, and they began



In 1952, Building #22 (the original superintendent's office turned museum) was moved again to a location above the park road across from park headquarters. The building served as an exhibit room for visitors until 1959. DENA 13-5, Denali National Park and Preserve Museum Collection

to hold "informational sessions" in the hotel lobby to answer visitors' questions. Occasional activities in the headquarters area—specifically, orientation talks at the naturalist's office and the dog kennels—rounded out the program.39 The 1953 program consisted of hotel talks and dog demonstrations; guided walks to Horseshoe Lake were also offered, although many additional visitors took advantage of the new self-guided trail pamphlet that park staff had developed the previous summer.40 One point of interest that was not available to visitors during this period was the park museum; in July 1950 it was closed down and moved to another headquarters location, primarily because the museum building was judged to be structurally unsafe.41

In winter, activities surrounding the hotel during the early 1950s took on an entirely new cast because of its role as an army and air force recreation camp. As in World War II, military authorities created a diversified recreational program; activities offered to the soldiers and airmen included skiing, skating, and tobogganing. To complement that program, Orr and Nancarrow met with the local military brass to "work out a program of interpretation and orientation." Based on the results of that November 1950 meeting, NPS staff over the next several winters offered a two-pronged interpretive program: the presentation of frequent illustrated talks at the hotel, plus a bus trip to the park headquarters, where a ranger would "hook up the dog team and demonstrate this method of travel." Each of these programs would be offered every two to three days throughout the winter.42 Superintendent Pearson, during this period, also played a continuing interpretive role. Given the presence of the Army Arctic Indoctrination School at the Big Delta Air Force Base (later known as Fort Greely), Pearson made frequent trips there to give talks and show movies, primarily during the wintertime, between February 1950 and July 1952.⁴³

The military left in the early spring of 1953. That summer, recognizing that the military would not return, the Alaska Railroad decided to keep the hotel open to civilian use for the upcoming winter. Despite relatively low visitor totals, NPS staff that winter cobbled together a series of illustrated talks, films, dog demonstrations, and visits to the park's information center, which was located in the naturalist's office at headquarters.⁴⁴ The hotel remained closed during the winters that followed, but the summertime program for the next several years remained similar to those of previous years.

During the mid-1950s, owing to the lack of alternatives, the concessioner was largely responsible for taking visitors to the park's main points of interest. Those interested in heading out to the western end of the park road could take either a "White" brand Navy-surplus bus or a smaller limousine. But the sparse visitation during these years, combined with the concessioner's marginal finances (see Chapter 6), meant that many visitors never got beyond the hotel-headquarters area. In July 1955, for example, Wonder Lake Ranger Ralph Turman noted that "the hotel bus has been [here] two or three times during the month while the limousine has reached this point four or five times," and in August "the Hotel limousine was observed only a couple of times and the bus was not seen."45 These trips were probably all-day affairs, inasmuch as the train schedule brought tourists to the park at either 12:30 a.m. or 4:30 a.m.46



Richard Prasil, above in 1956, prepares interpretive displays inside the exhibit room at park headquarters. On the log wall to the right is a bear hide and the three-dimensional model of the Mount McKinley massif created by wildlife ranger Harold Booth. DENA 13-2, Denali National Park and Preserve Museum Collection

The NPS offered a diversity of interpretive activities during the mid-1950s. Beginning in 1954, the park museum was open again, so visitors during this period had the choice of both talks and films at the park hotel, and at park head-quarters, there were both dog-sled demonstrations and talks at the museum. A few visitors took guided walks to Horseshoe Lake; many more, however, picked up an NPS pamphlet and took the self-guided hike to Horseshoe Lake and followed numbered posts along the trail.⁴⁷

A more detailed view of the park's interpretive program can be seen in the park's *Report on Information and Interpretive Services* for 1955. It noted that

Four programs were scheduled: two narrated wildlife films, an illustrated talk on the effect of seasons on plants and animals, and a program on history and mountain climbing. Museum talks were generally concerned with the history of the park and the early ascents of McKinley. These programs, as well as the dog team

demonstrations, were conducted six days per week throughout the travel season [June 15 through September 14]. Dog team demonstrations involved the harnessing and running of five dogs, and an explanation of the uses of dogs within the area, and a resumé of their history in the park and Alaska, Guided nature walks were scheduled three times each week, and hikes were conducted if more than four people registered for the walk. The number of visitors who took advantage of the nature walks was small, but understandably so, in view of the fact that the average age of the McKinley Park visitor is 50 years, then too, inclement summer weather results in the visitor taking advantage of demand bus trips out in the park when clear days are experienced.48

These activities were coordinated by park naturalist Richard Prasil and conducted primarily by seasonal ranger-naturalists Richard Riegelhuth (1954-55), Robert Badaracco (1956), and Thomas Choate (1957).



Construction of the Eielson Visitor Center was well under way in this September 1959 photograph. This Mission 66 visitor center opened to the public in July 1960. DENA 5-8, Denali National Park and Preserve Museum Collection

Mission 66 and Its Impacts

Throughout the early to mid-1950s, the park staff was well aware that a road was inching its way from the Richardson Highway (at Paxson) to McKinley Park Station and, as shown in Chapter 6, the widespread recognition that the park would soon be accessible to automobile traffic resulted in plans for various infrastructure and interpretive projects. By early August 1957, when the Denali Highway finally reached the park, the agency had improved several campgrounds along the park road, most notably Savage Campground and Wonder Lake Campground during the summers of 1954 and 1955.

Little thought was given toward interpretation along the park road, however, until park staff began working on the park's *Mission 66 Prospectus* during the winter of 1955-56. (See Chapter 7.) Plans, at that time, stated that a proposed road between Fairbanks and the park would enter the park via the north end of the Savage River Canyon and that it would intersect with the park road near the Savage River bridge. Based on that proposal, Mission 66's initial plans—bold indeed—called for the construction of a large, new public use building in that area. The park's Main Visitor Center, to be located there, would

include an exhibit room, a 300- to 400-person auditorium, a library, and information office. The prospectus also called for a second visitor center, at Wonder Lake, which would include a 100-person auditorium along with an exhibit room and an information office. Self-guiding nature trails, similar to what had already been implemented for Horseshoe Lake, were planned for Savage River and Polychrome Pass.⁴⁹

That summer, a team from the agency's regional office (in San Francisco) spent a day along the park road looking over what the park staff had proposed. Out of that visit came an initial suggestion to emphasize two new visitor centers: one at Polychrome Pass, the other at the site of former Camp Eielson. Polychrome Pass, for awhile, was slated to be the park's primary visitor-center site, with Eielson of secondary interest. It was soon discovered, however, that obtaining water at Polychrome Pass was problematic, so these priorities were reversed. By December 1956, the Eielson site had become "first in priority because of its urgent need." Development plans were focused there because "the superlative view of Mount McKinley and other features of the area merit orientational and interpretational exhibits, and as the location is the midpoint of the

concessioner bus tours, the area and building will be utilized heavily."50 Agency interest in a Wonder Lake visitor center soon died away51, and interpretation at Polychrome was soon downsized to a self-guiding trail, but for the Eielson site, development plans soon turned into action. In early 1957, NPS personnel quickly cobbled together architectural and interpretive plans for the new visitor center. By July, the agency was getting ready to issue a bid for the building's construction.52 The following March a construction contract was awarded to J. B. Warrack, an Anchorage construction firm. Eielson Visitor Center opened to the public in July 1960; a year later, on July 15, 1961, Associate NPS Director Eivind Scoven visited the park from Washington and dedicated the center in front of an appreciative crowd numbering about 60.53

During the early days of Mission 66 planning, the NPS (as noted above) retained a strong interest in a visitor center at the east end of the park, either in the Savage River area or in the vicinity of the McKinley Park Hotel. The agency, however, felt that it could not move forward until Bureau of Public Roads officials made a decision on where the road from Fairbanks and Nenana would enter the park. In 1956, BPR officials had tentatively decided to build a road through the Savage River Canyon, but during the critical winter of 1956-57—when the decision was made to construct Eielson Visitor Center—BPR withdrew its earlier recommendation and was in a wait-and-see mode. Several months later, BPR officials finally decided that the north-south route through Nenana Canyon was more practical and cost effective than a Savage River route. But by this time, the park's Mission 66 plans had already gone forward, and the fiscal window of opportunity had passed.54



Eielson Visitor Center was dedicated on July 15, 1961. DENA 5-26, Denali National Park and Preserve Museum Collection

Park staff had identified a need for roadside interpretive signs several years prior to the Mission 66 program,⁵⁵ but Mission 66 breathed new life into these efforts. Program officials felt that various "orientation exhibits and markers at scenic"

turnouts and other appropriate areas [along the park road] is deemed mandatory." At first they planned for markers at ten locations, soon upped to twelve; several of these were scenic or panoramic view sites, but virtually all offered interpretive markers pertaining to various natural history topics. The intended idea, conceptually, was that "roadside turnouts with exhibits or orientation devices [would] give meaning to the important park features," by which "not only will enjoyment of the park be increased, but enlistment of the visitor's intelligent cooperation in the protection and preservation of the area will be assured." ⁵⁶

Soon after the Mission 66 planning effort was commenced, Neil J. (Jim) Reid became the park naturalist. Reid, who was fully aware that the Denali Highway would soon be completed, knew that the park faced a daunting challenge; not only did it need to reach out to traditional visitor populations who arrived by train and stayed in the hotel, but it also had to find a way to appeal to auto-borne tourists, whose accommodations were divided among the park hotel, campgrounds along the park road, and accommodations outside the park. Reid, based on just a few months on the job, recognized that "some of the services that have proven to be highly successful interpretive media" in temperate zone parks (such as campfire and amphitheater programs) "cannot be applied to our most northern National Park." Instead, "the park road appears to be the logical place and roadside interpretive markers seem to be the best medium to contact the [newly-mobile] park visitor."57

Given that conclusion, Reid in mid-1957 began preparing a roadside interpretive plan that would include "20 roadside orientation and interpretive signs along the 93 miles of park road." By December 1958, the park plan was calling for a total of 33 interpretive signs at 17 turnouts along the park road, but the plan that was finalized two months later listed just 19 signs in 14 locations.⁵⁸ The park's interpretive plan was then presented to regional officials, and after some lively debates on "what roadside interpretive signs for Mount McKinley should be" (and some strident protests from conservationists who argued that signs ruined the "charm of the road"), final designs in 1959 were sent on to the Yosemite National Park, where the agency's sign shop produced them.⁵⁹ The following July, the park installed its first eight roadside markers. That fall, the sign-installation effort received a severe if unexpected setback; as a government report noted, "many of our wooden signs were destroyed by grizzlies ... prior to the hibernation period, and had to be replaced." Improved signs arrived in their stead, however, and in July 1962 the last four roadside signs were

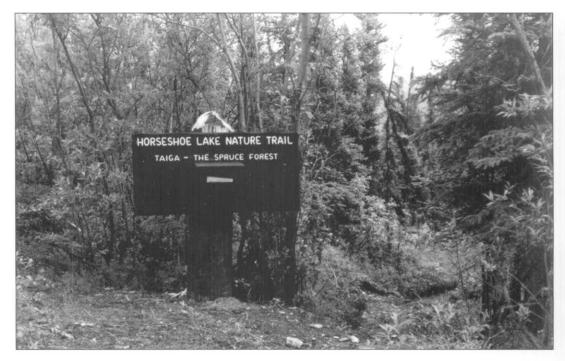


This Mission 66 roadside interpretive sign was located west of the Toklat River bridge, overlooking the West Branch of the Toklat River and Divide Mountain. DENA 39-11, Denali National Park and Preserve Museum Collection

installed.⁶⁰ All proved informative to park visitors, and the only sign that smacked of controversy was one (at Mile 4) discussing permafrost impacts; in June 1963, for reasons of propriety, the park decided to cover over a sign describing a "drunken forest" with the more appropriately-worded "leaning forest." That overlay, however, proved temporary, and by the 1970s the original text was visible once again.⁶¹

Other signs were added, too. Mileage markers were in place by the summer of 1960, and

perhaps as early as 1956. In 1961, new 4" x 4" red-wood markers were installed with numbers on both sides, but by the summer of 1963, only those deemed "very important" were being replaced. Several new mileposts were installed in 1972, but most if not all of the park's mileposts had been removed by the end of that decade. New signs also appeared at the two park entrances, the railroad station, the entrance station, the various park campgrounds, and even along Windy Creek, near Cantwell. And regarding the Horseshoe Lake Trail near the park hotel, park staff in early



In June 1960, the Horseshoe Lake Nature Trail featured this sign that provided visitors with an interpretive trail guide. DENA 13-6, Denali National Park and Preserve Museum Collection 1963 made an about-face from their decade-old practice of distributing self-guided interpretive booklets and instead opted to place 25 or more plastic signposts identifying key features along the trail. These signs were installed over the course of the 1964 and 1965 seasons.⁶⁴

Meanwhile, park staff-facing a dramatic increase in visitor numbers—did their best to carve out an interpretive program that would appeal to a newly-diverse visitor population. During the early summer of 1957, the program was much as it had been earlier: lectures at the park hotel, talks at the park's museum (or "exhibit room"), dog sled demonstrations, and occasional hotel-based guided nature walks, primarily to Horseshoe Lake. 65 Later that summer the number of visitors abruptly increased, but given no changes in staff, the program continued much as before. Both then and in 1958, the only new program element was an occasional campground program at Savage Campground, and because the park museum had been chosen as the new information center for auto-borne tourists, the former museum talks became orientation talks.66

This period also witnessed the birth of the park's—and Alaska's—first park cooperating association. As noted above, park staff in 1947 had begun selling a few educational materials, primarily books and maps. Through most of the 1950s, what was available to tourists was limited to the park brochure, plus two internally-gener-

ated, mimeographed publications: the Horseshoe Lake nature trail booklet and a seven-page road guide entitled McKinley's Mammals and Where to Watch for Them.⁶⁷ Park staff also spent considerable time during the mid- to late 1950s preparing a natural history handbook, but it was never completed.⁶⁸ To provide a vehicle for providing sales items to park tourists, park naturalist William Nancarrow, in late 1951, moved to form a natural history association for the park.⁶⁹ Two years later, he formed the McKinley Park Natural History Association and submitted paperwork to higher-ups for their approval.70 That effort proved stillborn, but five years later park staff tried again, and on February 16, 1959 they successfully formed the Mount McKinley Natural History Association, the agency's 49th cooperating association. Jim Reid, the park naturalist, was the group's first executive secretary.71 Of enormous help to the group's prospects was a \$7,500 pledge, received in the summer of 1959, which had been included in the will of James William Walsh, Jr. Given that financial boost, park officials confidently predicted that the association would "be able to stand on its own feet."72 Park employees were pleasantly flabbergasted by the promised gift—plus a second pledge of an even larger amount—because they had virtually no idea who Walsh was or why he would bequeath such a substantial sum.73

Slowly, over the next few years, new seasonal ranger-naturalists were added (there were two



Additional interpretive staff were hired to operate the new Eielson Visitor Center. Pictured here is the inside of the main viewing room at the visitor center, with exhibits and large windows for observation. DENA 11613, Denali National Park and Preserve Museum Collection



Eielson Visitor Center was the destination for concessioner tour buses until June 1981. DENA 5-35, Denali National Park and Preserve Museum Collection

in 1959 and 1960, three in 1961, and a surprising five in 1963), and as a result, the park was able to expand its interpretive program. The addition of a park entrance station, in 1959, provided a basis for providing park information74; another new service that year was the implementation of roving interpretive patrols along the park road. The interpretive-patrol idea was discarded in 1960. In mid-July of that year the new Eielson Visitor Center opened; it was staffed by a single seasonal ranger-Val Furlong-for the remainder of that season. The new center was devoid of exhibits that summer; perhaps to compensate, Furlong apparently conducted a number of area hikes in addition to his visitor center duties. Beginning in 1961, the agency offered a full-fledged interpretive program which included walks, talks, and information-desk services.75

As noted in Chapter 7, the park concessions program in 1958 emerged from an extended period in the doldrums when the Mount McKinley National Park Company—represented by Don Hummel and his nephew, Al Donau—became the park concessioner. By this time, Alaska Railroad schedules had been modified so as to bring visitors to McKinley Park Station during the midday hours. So as a result, those interested in heading out into the park were obliged to arise early, because the concessioner's bus tour left the park hotel at 4 a.m. The daily bus went just 65 miles out the park road (to the former site of Camp Eielson, where construction work was beginning for the new Eielson Visitor Center) and lasted just eight hours in order to have visitors back to the hotel in time for the southbound train. The sleepy bus passengers were assured that the early-morning departure was advantageous

because "the best views of Mount McKinley ... are obtained in the early morning hours some distance from the hotel. Later in the day the peak is often hidden by clouds."

Interpretation During the 1960s

At the east end of the park, the increasing number of annual park visitors during the 1960s caused growing pains in the interpretive program. At the hotel, evening programs (either slide shows or movies) had long been held in the facility's recreation room. But by June 1961, an average of 50 people—and sometimes crowds of "well over 100"—caused Verde Watson, the new park naturalist, to sarcastically complain that "extreme effort would be required to design a room less appropriate for [audio-visual programs] than the Hotel Recreation Room, ... Protection from inclement weather and insects are about the only good things that can be said" for it. Watson doubtless knew that the park's current master plan, which was a product of the Mission 66 planning process, called for the construction of a visitor center in the hotel area, and that Jim Reid, his predecessor, had been pressing the agency throughout 1960 to build such a center. Given that recommendation, Watson averred that "the need for a visitor center, probably at a location quite near the hotel ... indeed seems urgent."77

The hotel management was sympathetic to the overcrowding and the need for additional interpretive space, so during the winter of 1961-62 the concessioner approved an NPS plan to establish a visitor "information orientation station" in the hotel lobby. The information desk began operations in late May 1962—it was the third such facility opened since 1958—and by the end of June the



This room, added to one side of the hotel porch, served as the NPS visitor information and orientation center beginning in the spring of 1966. DENA 5-40, Denali National Park and Preserve Museum Collection

agency was glad to report that "responses thus far to the [new service desk] indicates this facility will render valuable public service."78 In addition, concessions officials agreed to Watson's plan to provide an afternoon interpretive talk (with an accompanying movie) in the hotel's recreation room as well as an evening slide-show program. This new system was implemented beginning in July 1962 and soon became a staple of the park's interpretive program.79 And in the fall of 1962, park personnel "temporarily" moved two small buildings to a site adjacent to the existing entrance station (which was located just east of where the road crossed the railway tracks) "to better serve those visitors entering the park by private vehicle."80

These improvements, though helpful in the short term, did not dissuade Watson from pressing for a new visitor center. By the summer of 1962, officials had completed a site-selection process and had chosen to locate the visitor center approximately 100 yards southwest of the hotel, and in 1963 regional officials visited the park and reviewed design plans. For the next two years, Watson continued to advocate for the center. Starthe agency, however, took a more economical alternative; in the spring of 1966, with the concessioner's blessing, the agency built a new information and orientation center (a 10' x 15' room) on the hotel's front porch. It opened on May 29, and in July the agency noted that the

center had "increased public contact there more than fourfold since the facility was relocated."82

The enlarged facility was admittedly a stopgap measure; although it adequately fulfilled its narrow purpose, it did nothing to quiet the increasing number of complaints related to the various audio-visual presentations. As noted in the park naturalist's 1966 annual report,

There is no adequate space in which visitors can assemble for proper orientation to the park. A visitor center with exhibit space and an auditorium is needed. Such a facility is programmed for [fiscal year] 1970. In the interim, the hotel recreation hall must double as auditorium. During the 1966 season 140 persons stood and sat beside pingpong tables and beneath steam and water pipes to listen to interpretive talks designed to recreate indoors the moods of this wilderness park. Quite a trick! Especially when the juke box in the next room blared the erotic music of the period.83

For the remainder of the decade, park staff continued to rail against the "critical shortage of ... visitor use facilities" and plead for a new visitor center. No such action was forthcoming, however.⁸⁴



The park's sled dog demonstration continued to draw visitors to the kennels, seen in this July 1966 photo. DENA 11-116, Denali National Park and Preserve Museum Collection

Throughout this period, visitors who arrived at the park by train—and more than half of all park visitors did so—used the concessioner's buses to head west from the hotel and headquarters areas. As noted above, beginning in 1958 an 8-hour bus tour left the park hotel at 4 a.m.; it returned in time for the 12:30 p.m. southbound train. Just one year later, the concessioner added a second

activity: a 12-hour tour (by van) to Wonder Lake, which returned in time for the 4:30 p.m. northbound train. 85 The longer tour, however, was less well known, and in both 1968 and 1971 advertisements touted only the 8-hour tour. (By 1971, this was being advertised as a "wildlife tour.") Those who wanted more personalized services—photographers, for example, or those headed off on a



Ranger naturalist Louis Ansorge leads visitors on a Horseshoe Lake Nature Trail walk in August 1965. DENA 13-17, Denali National Park and Preserve Museum Collection backcountry hike—could rent a car, with driver, at the park hotel.⁸⁶

The mid-1960s featured much the same interpretive program that had been established in 1962. At the east end of the park, the program continued to be comprised of dog sled demonstrations, evening slide programs, nature hikes (either to Horseshoe Lake or over the 1.7-mile Morino Loop trail), and afternoon programs. As late as 1966 the typical afternoon interpretive fare was a wildlife movie;87 that fall, however, a new NPS-sponsored Alaska film entitled Magnificence in Trust was received so positively that it became the afternoon staple the following year. Complementing these programs were ranger talks at Eielson Visitor Center, and on a more sporadic basis, Eielson-based rangers led "tundra wildflower walks" in the area. Visitors, at times, were also able to watch a slide show at the park's entrance station.88

During this period, the fledgling Mount McKinley Natural History Association gained a solid footing, though not without some difficult growing pains. During the early 1960s, the park naturalist—who served as the association's executive secretary as a collateral duty—was preoccupied in appointing a board of directors and assembling a list of sales items. In its articles of incorporation, the association was intended to serve park units throughout Alaska; given that direction, a sales unit opened at Sitka soon after the group was formed (though its sales were limited to slides). Similar sales units at Glacier

Bay and Katmai did not open until 1968 and 1971, respectively; even so, staff from all three monuments served as board members throughout the 1960s. The difficulties of holding an annual meeting with such far-flung members, however, soon became apparent, and in 1962 the board agreed that McKinley-based staff could constitute a quorum.⁸⁹

Of obvious concern to the new natural history association was where the park's sales venue would be located and what items would be sold. At first, annual sales were small because the major sales outlet was in the small park entrance station. (Eielson Visitor Center, which opened in 1960, sold only a small number of items during the 1960s.90) Then, in 1962, prospects for the association's finances brightened considerably with the installation of a new publications display case at the newly-staffed information desk in the park hotel. (This natural history association sales area would remain until the summer of 1972, when it moved to the new Riley Creek Information Center.) The installation of two small exhibit buildings near the park entrance station, during the winter of 1962-63, provided an improved sales outlet to visitors arriving by automobile.91

As far as its sales items were concerned, the association first retailed existing books, maps, and film. But as Regional Naturalist Dorr Yeager noted, "the publication of information material ... frequently constitutes the greatest source of income for [park] association[s]." Longtime park biologist Adolph Murie graciously agreed



Ranger naturalist John Trent, seen here, gave the first interpretive campground program at the Savage River Campground on July 6, 1968. DENA 13-23, Denali National Park and Preserve Museum Collection

to publish his Mammals of Mount McKinley National Park, Alaska through the association, and not long afterward he agreed to do likewise for his Birds of Mount McKinley National Park, Alaska. (His idea for a park "flower book" was considered but never published.)93 These two publications were offered for sale at the park beginning in May and July 1963, respectively. During the early 1960s, revenues from book sales at the park were relatively modest, never exceeding \$2,700 per year. Association profits, moreover, were minimal because "a large number of the association's two publications were given away" to colleges and secondary schools.94

Later that decade, the association branched out with assistance to other park units: in 1964 it published a visitors' guide to Sitka National Monument plus a Glacier Bay National Monument Boating Guide. Then, in December 1966, it purchased the nine-acre site where the old Dundas Bay cannery was located (in Glacier Bay National Monument), after which it donated the parcel to the NPS. In May 1967 it helped underwrite the construction of a scale model of Sitka (circa 1867) to help commemorate the Alaska Purchase centennial. Then, in 1968, it published a staffprepared A Coloring Book of Mount McKinley.95 In recognition of the association's statewide reach—and to also recognize the newly-independent management status of Glacier Bay and Katmai national monuments—the Mount McKinley Natural History Association changed its name, in 1970, to the Alaska National Parks and Monuments Association.96

During the last four years before the Parks Highway was completed to the park, a new activity was added to the park's interpretive program. In 1969, "rustic campfire circles" were placed at Savage River, Wonder Lake, and Teklanika campgrounds, and evening campfire talks commenced in 1970. The long-existing activities remained, but because of the burgeoning crowds coming to the park, their frequency multiplied: beginning in 1969, for example, there were two dog-sled demonstrations daily, and the summers of 1970 and 1971 often witnessed two showings of the afternoon movie (*Magnificence in Trust*), two nature hikes, and even two evening programs each day.⁹⁷

The Impact of Traffic Restrictions on Park Interpretation

As noted in Chapter 8, the completion of the Parks Highway resulted in NPS Director George Hartzog's decision to ration traffic along the park road west of the Savage River campground. As a result of that decision, private automobile traffic along most of the park road was restricted, and

to provide access into the park the NPS implemented a shuttle bus system beginning in early June 1972. The establishment of this system generated a huge demand for information about travel options. And because most of this demand was generated by automobile travelers, the NPS reacted by opening the Riley Creek Information Center, later that summer, near the entrance to Riley Creek Campground. That same year, they removed the information center at the hotel.98 The other major implication of the new system was that the many roadside interpretive signs that had informed the motoring public were no longer needed. As a result, NPS staff quietly began to take down these signs. Some were gone just a few months after Director Hartzog announced the new traffic regime; a few signs, however, remained until the late 1970s.99

Given the road restrictions, people interested in visiting the western end of the park road had two options: the long-established tour buses or the new shuttle buses. The concessioner initially reacted to the new system by moving the former 4 a.m. buses to an even earlier 3 a.m. starting time. But by mid-July, it had made an about-face and moved the departure time back to 6 a.m. and, in addition, it added an evening wildlife tour. (Both tours went 66 miles out the road before returning; the new tour was ostensibly added "as a means to alleviate congestion caused by large visitor groups at Eielson Visitor Center.") The evening tour, however, proved unsuccessful, so in the spring of 1973 the concessioner offered two morning tours, at 4 a.m. and 6 a.m. 100 Twice-aday tours remained the norm for the remainder of the decade; in 1977 the early tour still departed at 4 a.m., but by 1980, tour times were 6 a.m. and mid-afternoon.101 As for the shuttle bus, it proved almost three times as popular as the tour bus during the summer of 1972.102 Despite overcrowding problems that forced the NPS to acquire additional buses in midseason that year, the agency in the spring of 1973 advertised that there would be just five daily round trips to the western reaches of the park road: two to Wonder Lake and three others to Eielson. As the decade wore on, the number of these daily round trips increased.103

The mid- to late 1970s witnessed dramatically increasing visitor volumes to Mount McKinley National Park: there were fewer than 45,000 recreational visitors in 1971, the year before the Parks Highway reached the park, but by 1979, that number had skyrocketed to more than 251,000 recreational visitors. During this period, the number of visitors who arrived by train increased slightly. The vast majority of new visitors, however, were those who drove to the park; rather than taking the long, difficult Denali Highway route,





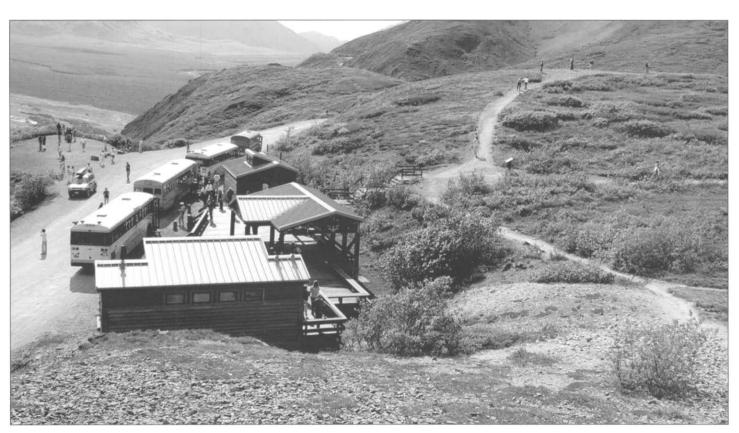
Road traffic restrictions meant that all visitors—not just tour bus passengers—would travel the park road in larger groups, resulting in the need for expanded services. These two photographs were taken at Polychrome Rest Stop in July 1974, only two years after road travel restrictions were instituted. DENA 5745, Denali National Park and Preserve Museum Collection

most motorists accessed the park via the Parks Highway, from either Fairbanks or Anchorage.

In order to provide quality information to the new hordes of park visitors, park staff sought new interpretive opportunities. As noted above, the 1971 program had featured the following daily activities: two afternoon movies, two evening programs, two dog sled demonstrations, two hotel-based nature hikes, and various campground talks. By 1975, the afternoon movie had been eliminated entirely, and both the hotel slide show (which was now held in the afternoon) and the hotel-based nature walk had been trimmed back to once per day. Campfire programs were being offered at the Wonder Lake and Teklanika campgrounds (as in 1971), but the Savage Campground program had been cut in favor of one at

the much larger Riley Creek Campground. Dog sled demonstrations increased from twice- to thrice-daily (at 10 a.m., 2 p.m., and 3 p.m.) beginning in August 1975. (Park staff noted that "this demonstration of the traditional use of sled dogs in Alaska and Mount McKinley continues to be the favorite and most highly attended visitor activity.") In addition, interpreters now offered a "tundra walk" each afternoon at Eielson Visitor Center along with a longer daily discovery hike which had been instituted in 1973. 106 Interpreters also were on hand twice each day at the McKinley Park railroad depot to offer information and guidance to arriving visitors. In 1976, the program was similar to what had been offered in 1975, except that it reestablished its hotel-based evening program four days each week, and on the other three days it inaugurated an evening walk

Polychrome Rest stop facilities are shown here in 2007. NPS Photo





A ranger naturalist provides visitors with an interpretive talk in the Eielson Visitor Center observation room, July 1966. DENA 13-20, Denali National Park and Preserve Museum Collection

starting at the hotel. In addition, Eielson-based tundra walks were offered in the morning as well as afternoon, and "bicentennial living history demonstrations" were offered at the "Historic Toklat Cabin" throughout the summer.¹⁰⁷

By 1978, the park's interpretive program had witnessed even more changes. The daily afternoon slide talks and the four-per-week evening slide shows remained, as did the daily hotelbased nature walks and the three-per-day dog sled demonstrations. But Eielson-based tundra walks were now offered three times per day, and discovery hikes were now offered to both hotel-area and Eielson-based visitors. Campfire programs were offered at four campgrounds: Riley Creek, Savage, Teklanika, and Wonder Lake. In addition, children's activities were now offered daily at the Riley Creek Information Center, and interpretive programs were occasionally offered at McKinley Village, seven miles south of the hotel. (Rangers no longer greeted arriving train passengers.) In 1979, the agency was able to expand its slide-show programs to twice each day, seven days per week, and offsite programs were shifted from McKinley Village to Camp Denali and North Face Lodge. Otherwise, park interpretation continued much as it had the previous year.108

The dramatic increases in park visitation, and the limited, inadequate facilities at the park hotel, soon brought forth renewed calls for improved interpretive venues at both ends of the park road.

Just two years after Eielson Visitor Center was opened to the public, large groups of visitors were overwhelming the facility; in particular, lunch-toting tour bus patrons descended on the center at mid-morning each day, and given the cool, blustery conditions that all too often prevail there, patrons commonly ate their box lunches in the center's main exhibit room, a practice that the NPS felt was "highly inappropriate." By 1966 the situation was unchanged, as noted in this annual report:

Eielson Visitor Center, in reality only a wayside museum, ... was frequently overcrowded. Eielson contains an exhibit-observation room with information desk, restrooms, and a multipurpose room used only as a lunchroom since its construction in 1961. ... The tiny room, into which about 20 persons would cram, is inadequate since busses disgorge upwards of 100 passengers at a time. Visitors overflowed into the observation room. ... As long as Eielson remains the terminus of the bus tours, overcrowding and overtaxing of facilities will be fact of life and the object of complaints.110

These conditions remained until 1972, when the establishment of the park shuttle bus system, plus ever-increasing visitor numbers, resulted in enormous new demands on the decade-old visitor center. By 1973, the agency finally de-



Groups of tour bus passengers routinely ate their sack lunches in the observation room of the Eielson Visitor Center, as this 1961 photograph shows. DENA 42-25, Denali National Park and Preserve Museum Collection

cided that the building needed to be redesigned and enlarged (see Chapter 8); plans called for additional restroom facilities, a new entryway, covered walkways, and a large, open observation tower that offered sweeping views (on clear days) of Mt. McKinley and other Alaska Range peaks. Bids were let in April 1974 and project construction began later that year. The work was largely completed by September 1975. A year later, new exhibits were installed there. The expanded facilities, plus the concessioner's 1972 decision to offer more than one wildlife tour, eased the overcrowding problem at Eielson, although space concerns remained for years afterward.

At the east end of the park road, new calls were made for a park visitor center. The park's decision to schedule afternoon as well as evening programs—begun in July 1962—had helped, as had the construction of an NPS information center in the hotel (a small area in 1962, then moved and expanded in 1966). The 1972 opening of the Riley Creek Information Center—which was a double-wide trailer near the campground entrance—provided an even larger area where agency personnel could dispense information and interpretive materials. But by the late 1970s, crowds attending programs at the park hotel (a "temporary" structure built to replace the hotel that had burned in September 1972) were again exceeding the capacity of existing facilities.

In 1979, the NPS moved to improve its interpretive facilities. That April, it proposed that the existing information center—which was a single open room—be replaced with a larger, rusticappearing log information station "capable of housing separately the major functions of campground registration, fee collection, Association sales, backcountry permits, and visitor information, plus having space for administrative use where accountability can be accomplished in private." Alternatively, it urged the construction of a "major visitor center which would contain all of the information station operations plus major exhibit rooms, an auditorium, library, museum, and interpretive office and administrative space."112

Inasmuch as the agency, at this time, was in the midst of the Congressional fight over Alaska's parklands, officials were not in a position to expend substantial new funds until after the lands question had been settled. The plans for a new information center, therefore, were held in abeyance for the time being. In 1982, the construction of a new office addition to the "inadequate double wide trailer" provided improved conditions and offered staff a modicum of privacy.113 But more ambitious proposals remained in the planning stage until the park's Visitor Access Center (now called the Wilderness Access Center) was constructed in the late 1980s. But regarding an expanded venue for park interpretive programs, agency officials as a stopgap measure purchased



By July 1974, construction of additional restroom facilities, a new entryway, covered walkways, and an open observation tower were underway at Eielson Visitor Center. DENA 5749, Denali National Park and Preserve Museum Collection

a 40' x 60' red-and-white-striped "circus tent" and erected it just north of the park hotel in time for the 1979 visitor season. This tent, which was ostensibly "rented for the summer," was of marginal benefit; as park naturalist William Truesdell noted, it "allowed too much light to enter and the light that shown [sic] through the red stripes was very distracting. The tent was also uncomfortably cold most of the summer." The year 1980 brought even greater discomfort; on June 18 the tent collapsed under a 12-inch snow load. Operations there could not begin again until July 4, and as staff noted, the tent was again "uncomfortably cold," primarily because "of another cold, rainy summer." 15

Given the tent's obvious disadvantages, the NPS included a clause in its 1981 concessions agreement that called for the concessioner to build a new "audio visual room" adjacent to the hotel. (See Chapter 9.) This structure, later called an auditorium, was completed by the late summer of 1982 and it opened to the public in June 1983. But between 1979 and 1982, the tent hosted a wide variety of lectures and movies, the latter sponsored by both the NPS and the concessioner.

During the 1970s the Alaska National Parks and Monuments Association took on several new

publications projects, and perhaps as a result, its fortunes increased. As noted above, when the newly-named statewide organization began (in April 1970) it had published three books about the park: Adolph Murie's volumes on mammals and birds (in 1962 and 1963, respectively), and the staff-created Coloring Book of Mount McKinley, published in 1968. In 1971 the association published The Malamutes of Mount McKinley, by agency employees Roy Sanborn and Tom Ritter, and soon afterward it published a bear warning folder (entitled Grizzly Bear - Friend or Foe?) and a new Horseshoe Lake Trail Guide. In 1974 it republished Murie's popular mammal book. Throughout this period, the coloring book remained available to park visitors.116 In 1971 the association tallied about \$8,250 in gross receipts at the park, a figure that had roughly doubled by 1975; just a year later, however, revenues shot up to \$45,000 "due to the use of new multi-book display techniques, to maintaining sufficient stock, and the acquiring of slide sets and Kodak film products for sale."117 The 1974-76 expansion of Eielson Visitor Center portended the potential for an increased sales presence, but throughout the late 1970s the association's sales selection was limited to maps, film, and slide sets.118

Revenues for the cooperating organization continued to increase during the late 1970s.



This circus tent, located just north of the hotel, served as a temporary auditorium for interpretive talks. Seasonal interpreters who gave programs there recalled that it was cold and the projection screen would undulate when it was windy. NPS Interp. Collection, #2408, Denali National Park and Preserve

During the 1977 fiscal year they totaled approximately \$62,000, and between 1978 and 1980 they ranged between \$80,000 and \$100,000. Given the group's increasing revenues, it was able to hire its first employee (Wilma Mercer) in 1977. The following year it placed its first salesperson at Eielson Visitor Center, and in 1979 it sponsored the publication of Wyatt G. Gilbert's geology handbook, entitled A Geologic Guide to Mount McKinley National Park. By the summer of 1980, the Mount McKinley outlet of the cooperating organization had three sales personnel on its payroll; two worked for the summer season, while the third "worked part-time during the winter to take care of mail orders and deposits."119 A major new element in the park's interpretation program emerged in 1979 with the first edition of a summer park newsletter, called the Alpenglow. This eight-page publication, which followed much the same guidelines as similar publications at "Lower 48" parks, proved so successful that it became a regular summer feature. At first, the agency paid all of the newsletter's printing costs; a few years later, however, the park's cooperative association began to assist in this regard.120

During the late 1970s, the park's cooperating association dramatically changed its scope due to legislative activity taking place in Washington, D.C. As noted in Chapter 8, Congress spent much of the 1970s debating the Alaska lands issue, and its self-imposed deadline called for the issue to be resolved by December 1978. In anticipation of that deadline, the Alaska National Parks and Monuments Association moved in the late summer of 1978 to change its name to the Alaska Natural History Association (ANHA). Despite a delay in settling the Alaska lands issue, ANHA came into being in late November 1978. Recognizing that Congress, in due course, would pass a lands bill with managers from a variety of federal, state, and other entities, ANHA's directors stated that the new organization's purpose would be to support "the educational and scientific programs of federal and other governmental agencies and non-profit organizations concerned with the conservation, preservation and interpretation of natural, historical, and cultural resources of the state of Alaska."121

Park Interpretation During the 1980s

In December 1980, Congress passed—and President Carter signed—the Alaska National Interest Lands Conservation Act, and among its other provisions was creation of Denali National Park and Preserve in lieu of Mount McKinley National Park and a near-tripling of the park unit's acreage. Despite the millions of acres of new parkland, the vast majority of visitors remained along the road corridor in the so-called "old park." As a result, interpretation did not undergo significant changes because of Congress's action.

A new auditorium, located adjacent to the McKinley Park Hotel, was opened in 1983 and used for the presentation of interpretive audio visual programs. NPS Photo, Brad Richie Collection

Instead, the 1980s witnessed incremental changes based on a continuing explosion in the number of park visits - from approximately 216,000 in 1980 to 436,000 in 1985 and 546,000 in 1990. Interpreters continued to offer the public the same opportunities that had been offered in years past: dog sled demonstrations, hotel-based nature walks, ranger-led talks and films, discovery hikes, campground talks, Eielson-based tundra walks, and children's activities operating out of the Riley Creek Information Center. Visitors enthusiastically attended these activities, particularly the dog sled demonstrations; total interpretive participation (for all park programs) rose from about 60,000 in 1980 to more than 212,000 in 1991.122 To cope with the crowds, several of these activities were offered more often during the 1980s than they had previously. But for the most part, increasing visitation resulted in larger crowds attending the same number of interpretive presentations. (The thrice-daily dog-sled demonstrations, for example, remained constant throughout the decade.) A few new activities were attempted; the agency, for example, experimented with "welcome walks" during the 1987 season, and about 1990, park rangernaturalists "randomly boarded shuttle buses to provide 'on board' commentary and contact with our visitors." The welcome walks proved short-lived, and after 1989 staff no longer offered daily children's programs. So-called "bus roves" remained, however, through the mid-1990s.123

The major interpretive facility developed during the 1980s was the Visitor Access Center. As noted



Park interpreters provided visitors with an opportunity for short walks originating from the park hotel. Edible plants of the area was the theme of the interpretive walk shown here. Robyn Burch Collection

in Chapter 9, the stopgap nature of the 1972 Riley Creek Information Center was widely recognized, and despite a 1982 addition, it was widely hoped that this facility could soon be replaced with a larger, more permanent structure. In 1982, the agency had announced plans—as part of its road corridor development concept plan—to build a new "interpretive/transportation center." This plan was approved in 1983, and the park's final (November 1986) general management plan reiterated the need for a "visitor access center" and further suggested the addition of an adjacent shuttle bus staging area.124 Funding the new center, however, proved problematic, and it was not until early 1987 that the NPS awarded a construction contract. That September the winning bidder, the Ahtna Native Regional Corporation, began site preparation. The new Visitor Access Center (VAC) opened over Memorial Day weekend 1990; as Superintendent Russell Berry noted, the facility was "a vast improvement" over the 18-year-old double-wide that it was replacing. 125 After that date, the facility served as the primary way in which motorized visitors were introduced to the park and its various transportation, camping, and backcountry options. In addition, the VAC's auditorium showed a half-hour-long

As noted above, the concessioner's bus tours underwent major changes during the 1970s, and between 1977 and 1980, the twice-a-day tours moved from morning-only departures to those that left at both 6 a.m. and the mid-afternoon. This schedule continued on into 1981, but a deadly bus accident in mid-June of that year (during the return run of an afternoon bus) just east of Eielson Visitor Center forced the concessioner to rethink its turnaround point. Recognizing that two previous, recent accidents—in July 1974 and August 1978—had also taken place toward the west end of the park road, the concessioner immediately decided to truncate the tour by establishing a new bus turnaround point at Stony Hill. (See Chapter 9.) Since that time, tour buses as a rule have not ventured beyond Stony Hill; indeed, bus passengers visiting the park on cloudy days have typically gone only as far west as the Toklat River.127

automated orientation slide show.126

The twice-daily bus schedule—one in the morning, another in the afternoon—has continued ever since. In recent years the increased popularity of this tour¹²⁸ has exploded, requiring numerous morning departures (between 6:00 and 7:30 a.m.) and additional afternoon departures (between 3:00 and 4:00 p.m.), but the same basic schedule still holds. The shorter Denali Natural History Tour, which began in 1990 (see Chapter 9) keeps to a similar schedule; it also holds



Beginning in 1994, NPS interpretive rangers (in uniform or in costume as historical characters) provided presentations at the historic Savage River Ranger Patrol cabin. This was an opportunity for rangers to interact with passengers on the Denali Natural History Tour, operated by the park concessioner. In 1996 this function was performed by the tour bus drivers, and the following year the park concessioner began training its own staff to provide living history presentations at this venue. Ingrid Nixon Collection

morning and afternoon departure times, plus an additional midday departure.¹²⁹

As noted above, participation in the old Alaska National Parks and Monuments Association had been limited to NPS units, and Mount McKinley National Park had dominated that entity, both financially and organizationally. The new Alaska Natural History Association, however, brought forth a new era of cooperation among both federal and non-federal agencies. Given that cooperative spirit, ANHA invited U.S. Fish and Wildlife Service representatives to participate within months of the new organization's formation; ANHA and the agency signed an agreement in March 1979, and that summer association outlets were in operation both in Adak (Aleutians National Wildlife Refuge) and Fairbanks (Arctic National Wildlife Range). A year later-in fact, less than two weeks before President Carter signed ANILCA into law—U.S. Forest Service and ANHA representatives signed a memorandum of understanding, and in the summer of 1981 Chugach National Forest opened its first two ANHA outlets: at the Begich-Boggs Visitor Center in Portage, and on board the M/V Bartlett.130 In 1985 a fourth member signed on—Alaska State Parks, where an outlet opened at the Eagle River Visitor Center that July—and in 1991 the U.S. Bureau of Land Management joined as well, with outlets both at the Coldfoot interagency center and the Public Services Room in the new Anchorage federal building.131

During the early- to mid-1980s, the surge in park visitation resulted in a dramatic increase in

ANHA revenues: from approximately \$97,000 in 1980 to \$126,000 in 1984 and \$211,000 in 1987.132 (Part of this increase was brought about by the addition of books to the stock at Eielson, although in the late 1980s the outlet's offerings were still fairly limited. [33] But given the more diverse function of the Alaska Natural History Association during this period, the economic dominance of the park in ANHA soon waned; in 1980, sales at the park outlet had comprised more than 60 percent of ANHA's total sales (and ANHA's executive director noted that "Mt. McKinley's sales have always been the backbone of the association's income"), but in 1984 and 1987, however, they had fallen to 43 percent and 27 percent, respectively.134 The park, during this period, initially had two sales outlets: Riley Creek Information Center and Eielson Visitor Center. But ANHA personnel, sensing a business opportunity, sponsored the publication (in June 1981) of dog handler Sandy Kogl's Sled Dogs of Denali and then sold the book after the park's daily dog sled demonstrations.135 During the 1980s the local ANHA branch sponsored the production of several other new items, including Kim Heacox's 1986 Denali Road Guide, Michael Collier's Geology of Denali National Park (1989), and a poster by Washington-based artist Jim Hays. ANHA revenues were also used to produce the annual Alpenglow and to assist the financially beleaguered park interpretive program.136

Park Interpretation, 1991-present

Beginning in 1990, Denali National Park and Preserve offered three primary interpretive venues. The Visitor Access Center was a focal



The Alaska Natural History
Association (ANHA) sales outlet at
the park dog kennels is shown on the
right of this photo. At the end of the
scheduled sled dog demonstration,
as visitors make their way back to
waiting buses, ANHA staff provided
an opportunity for visitors to
purchase park literature. NPS Kennels
Photo

point for those who drove to the park or were potential shuttle-bus passengers; visitors to the center could obtain bus reservations and tickets, board the buses, and get both backcountry camping reservations and park campground permits. In addition, the center's auditorium showed an automated, introductory slide show, later complemented by various videos that the local Alaska Natural History Association offered as sales items. The separate auditorium building, located just north of the park hotel, offered narrated slide shows, and it also continued to show the park's award-winning film, Denali Wilderness, which had been completed in 1982 and first shown in 1983. (This film was shown to visitors until 1997.)137 And the Eielson Visitor Center, 66 miles out the park road, offered exhibits. The hotel and Eielson served as the base for nature walks, and all three venues had staff to answer visitor inquiries and sell park-related books.138 This trichotomy remained for the next 12 years.

As noted earlier, the number of park visitors grew sharply throughout the 1970s and 1980s. (Specifically, approximate annual recreational visitation was 45,000 in 1971, it rose to 216,000 in 1980, and beginning in 1986, it topped 500,000 and remained at that level through the early 1990s.) But as noted in Chapter 10, the political implications of the park's visitation level brought about changes to the tabulation methodology, and as a consequence the agency recorded fewer annual recreational visitors. More specifically, U.S. Senator Frank Murkowski (R-Alaska) in 1995 compared the 500,000-plus annual visitation figure with the annual number of bus passengers

(which totaled approximately 250,000) and concluded that more than 250,000 people "were not able to enter the park" because the buses were full. Murkowski, moreover, used that figure to justify the need for a northern access route to the Kantishna-Wonder Lake area.139 Faced with that political reality, the NPS's statistics unit (based at the agency's Denver Service Center) changed its visitor counting method from one that counted total vehicle traffic heading up the park road (i.e., number of *visits*, including casual local traffic) to one that more accurately reflected the actual number of park visitors. Given that change in counting methods, recreational park visitation slipped from 543,309 in 1995 to 341,395 in 1996 (a 37 per cent drop), even though there was only a slight dip in the actual number of recreational visitors.140

In 2001, changes to the park's interpretive program once again took place when the McKinley Park Hotel closed down. That closure, followed soon afterward by the hotel's demolition, engendered a four-year transitional period in which the Visitor Access Center was the park's only significant east-end interpretive venue. (See Chapter 10.) As noted elsewhere, park staff had been calling for a full-fledged visitor center in this area ever since the Mission 66 days of the mid-1950s, and the 1990 completion of the Visitor Access Center—while a positive step—did not mitigate the need for a new interpretive venue that could offer exhibit space and a quiet, state-of-the-art auditorium for talks and films. The need for this facility had been stated in the so-called Front Country Development Concept Plan, which the

NPS had approved in February 1997; despite the completion of that plan, however, hotel operations continued until Congress was able to underwrite the cost of new NPS facilities and, on a more practical level, until the termination of the concessioner's twenty-year contract. Because the Visitor Access Center, during this period, was the park's primary visitor node, there was a widespread assumption (based on the 1997 DCP) that any new visitor services facilities would be located adjacent to the VAC. This assumption, however, was dispelled in November 2001 when the NPS released an environmental assessment (EA) for its planned visitor facilities. This EA proposed the construction of a multi-use "visitor services building," along with an adjacent science and learning center, which would be located on or near the footprint of the old hotel. NPS officials, in this plan, decided to locate new visitor services here, rather than the VAC site, because it was adjacent to the railroad station and because the new site protected park resources and animal habitat by using "pre-disturbed land."141 This proposal was somewhat modified during the ensuing public process, but the final EA, approved at the end of January 2002, called for a 14,500-square-foot visitor center along with several adjacent support buildings and a new Denali Science and Learning Center. 142

By the end of 2003, the agency had chosen a builder for both the visitor center and the learning center, and work was "underway and on schedule" on both complexes. The educational center, by now called the Murie Science and Learning Center, opened in August 2004.¹⁴³

During the winter of 2004-05, construction crews and interpretive specialists completed their work on the three-building complex that included the Denali Visitor Center, the Denali Bookstore, and the Morino Grill. The visitor center complex opened to the public in May 2005, and three months later NPS officials held dedication ceremonies there.144 As soon as the visitor center opened, the role of the 15-year-old VAC changed significantly. The park concessioner took over its management from the NPS, the center's name changed to the Wilderness Access Center, and backpacking permitting functions (which the NPS still managed) moved out to an adjacent trailer. The main park film, the newly-minted (and award-winning) Heartbeats of Denali was now being shown in the new visitor center, so in its stead was featured the recently-released historical film, Across Time and Tundra, which had been produced in 2002 by park employees Jane Bryant and Jane Tranel.145

Another new facility erected during this period was located in Talkeetna, south and east of the newly-expanded park. In order to manage the ever-increasing number of Alaska Range climbers, the NPS since 1977 had stationed staff at Talkeetna during the three-month climbing season. (See Chapter 13.) Staff first operated out of makeshift facilities, and visitors were hardly aware of the NPS's presence in town. But in 1984 the agency began renting a small, roughhewn building just south of the Fairview Hotel; it was dubbed the "Genet Building" because the late mountaineer Ray Genet had helped erect it. Though the building was primarily intended



Park interpretive rangers continue to present regularly-scheduled campground evening talks. The theme of the Wonder Lake Campground presentation pictured above is mountaineering history. NPS Photo

as a climbers' orientation station, non-climbing visitors soon began to filter in. Agency personnel displayed minimal interpretive materials: largescale photographs, mountaineering gear, a small outside kiosk, and similar items. To help answer visitors' questions, the agency began stationing Student Conservation Association personnel in the facility. The Genet Building, rustic in appearance and poorly constructed, retained its function until well into the 1990s.146 But the increasing interest in Talkeetna as a visitor destination, as well as a continuing rise in the number of annual climbers, portended the need for a larger, multipurpose facility, and in 1989 agency officials began designing exhibits for a new facility that would be located in "downtown Talkeetna to serve the separate and specific function of providing assistance to Mt. McKinley climbers."147 That facility was begun in 1995, completed in December 1996, and dedicated in June 1997 (see Chapter 13). The Talkeetna Mountaineering Center, known more informally as the Talkeetna Ranger Station, was "highlighted with several large panoramic photographs by Mt. McKinley's revered master, Bradford Washburn," and beginning in 1997 seasonal interpreters began working there to cater to the needs of non-climbing visitors.148

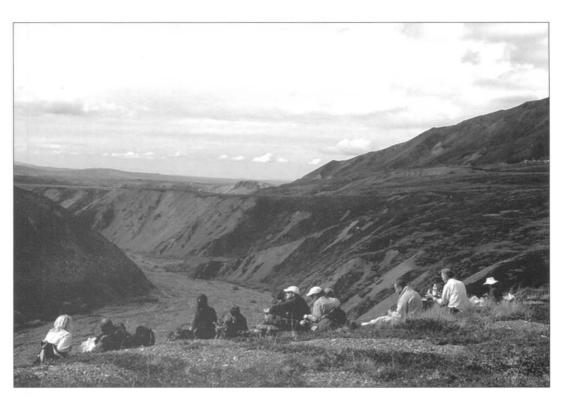
Although the number of park employees—both permanent and seasonal—has grown substantially since ANILCA's passage, the number of interpretive personnel has not kept pace with that growth. All too often, times of fiscal stress have tended to impact the interpretive workforce to a disproportionate degree. 49 As a result,

interpretation in both the East District and West District of the park has been handled by seasonal NPS employees since 1980, if not earlier. 150 But even seasonal hires (some of whom have been local residents) have been reduced in recent years, and in 2004 the park had its smallest number of interpretive seasonals in twenty years. In order to fulfill the park's goals, park staff increasingly relied on Youth Conservation Corps workers, Visitor Use Assistants, members of the Student Conservation Association, and on volunteers, some of whom were seasonal workers who stayed on for the winter.151 Indeed, volunteers have made major contributions in recent years; by the late 1990s, volunteer interpreters were contributing more than 2,000 hours of service each year, and the latest (2006) figures state that interpretive volunteers contributed more than 8,000 hours: almost four full-time years of volunteer effort.152 Interpretive leaders during the post-ANILCA period have included William Truesdell (1975-1981), Doug Cuillard (1982-1987), George Wagner (1987-1991), Thea Nordling (1992-1996), Lisa Eckert (1996-1998), Blanca Stransky (1999-2006), and Ingrid Nixon (2006 to present).153

During this period, NPS officials continued to improve the interpretive program and to expand it where appropriate. In 1992, for example, the auditorium at the hotel offered both an afternoon and evening program (either a slide show or movie in each case). There was also a daily "naturalist's choice program" (which might include anything from a nature hike to a demonstration or children's program) held either in the VAC or hotel area. Discovery hikes were of-



Talkeetna-based interpretive rangers present informational talks to visitors and school groups, shown here in the main room of the Talkeetna Ranger Station. NPS Photo



Discovery hikes led by interpretive rangers typically last from three to five hours. Visitors ride shuttle buses to the beginning of the scheduled hikes. NPS Photo

fered; campground programs were given at Riley Creek, Savage River, Teklanika, and Wonder Lake campgrounds; dog sled demonstrations were still provided three times each day; and at Eielson Visitor Center, both tundra walks and "naturalist's choice" activities were offered each day.154 In 1994, NPS staff initiated historical programs at the old ARC-built Savage Cabin, and a year later, park staff began offering additional programs including "streambed strolls," "Toklat Treks," and morning kennels-area walks.155 In 1998, staff inaugurated a "naturalist's choice evening walk" three times each week, and four years later it initiated the "Denali discovery pack program," intended for families, in which a backpack contained "an activity guide, tools and materials to explore park resources and bring visitors closer to the small wonders of the natural world."156 Throughout this period the agency, as noted above, showed an orientation slide show many times each day at the Visitor Access Center. It also offered Junior Ranger Program activities, initially through offerings in the annual Denali Alpenglow newsletter and later through an activity guide available free from park staff.157

Since 2000, the program has continued to evolve. During the summer of 2003, daily programs included dog sled demonstrations (still offered three times each day), an evening program in the VAC's theatre, evening programs at four of the park's campgrounds, a Horseshoe Lake hike, a Savage River walk, an "Eielson Stroll," and a discovery hike. By 2006 these had been modified somewhat because the VAC (now the Wilderness Access Center) was no longer the only NPS visi-

tor node and because Eielson Visitor Center was being replaced (see below). The VAC's evening program and the "Eielson Stroll" were thus eliminated, and as well, the Savage hikes were replaced by the more generic "entrance area hikes and strolls" and a variety of either "short loops in the spruce forest" or "longer explorations that interpret various park-related themes." All indications suggest that the park's interpretive staff will continue to experiment with new interpretive programs, and they will either add new programs or replace existing programs in response to changing budgets and emerging public interests.

The park's cooperating association has shown strong growth in recent years. During the 1980s, as noted above, the Alaska Natural History Association had two sales outlets: the double-wide Riley Creek Information Center and Eielson Visitor Center. In the spring of 1990, the completion of the new Visitor Access Center (with a large, modern sales outlet) replaced the old information center, and in 1995, the Joe Hankins Room at the Eielson Visitor Center was reconfigured into a larger, up-to-date ANHA sales area.¹⁵⁹ As a result of those initiatives, ANHA sales at the park dramatically increased from 1989 (with \$226,000 in sales) to 1995 (with \$679,000 in sales). More recent figures have shown even higher returns; between 1998 and 2004 the park's outlets consistently grossed between \$825,000 and \$975,000 in sales.¹⁶⁰ In the spring of 2005, the opening of the new park visitor center included the adjacent Denali Bookstore. Given that new facility, the park's ANHA outlet had its first million-dollar sales year in 2005, with \$1,082,000 in gross



To enhance the visitor experience and to provide for the safety of increasing numbers of visitors, viewing stands (seen above) were installed at the kennels in 1998. In 2003, a total of 38,651 visitors attended dog demonstrations at the park kennels. NPS Photo

sales. In 2006 sales shot up even further, to some \$1,465,000 (see Figure 2).

A key aspect of public-agency cooperating associations is that a significant percentage of gross revenues are returned to the agencies, with the money received being used to further various agency interpretive and educational goals. As noted above, so-called "branch support" or "direct aid" revenues gathered during the earliest years of the park's cooperating association were devoted toward the publication of various park books, followed in later years by posters, newsletters, and similar interpretive fare. Prior to 1975, these revenues were fairly meager. But in 1977, as noted above, they were sufficient to sponsor the park's first staff person, and during the 1980s the funds paid back to the park multiplied tenfold. Throughout the 1990s, these funds consistently topped \$30,000 per year, and since 2000 they have often exceeded \$60,000 annually.161

Given such a substantial, continuing revenue stream, ANHA officials in recent years have been able to engage in diverse projects to "facilitate the conservation, education, and interpretive programs" at Denali National Park and Preserve. 162 During the 1990s the association's primary efforts were aimed at discrete physical products: the publication of various books and the annual *Alpenglow* newsletter, along with an art print, a video highlighting winter patrol activities, and a CD-ROM about the park. 163 But funds also were directed to such diverse goals as VAC exhibits, library books, interpretive materials, and the con-

struction of a climbers' memorial, and as early as 1996 direct-aid revenues were able to pay for Student Conservation Association interpretive interns. 164 After 2000, the scope of these activities was able to increase. By 2002, the association was able to shore up the park's underfunded interpretive division by hiring an interpretive planner along with four interns; it funded both summer and winter issues of the Alpenglow; it distributed 170,000 "companion booklets" (i.e., interpretive guides) to patrons on both the Tundra Wilderness Tours and Natural History Tours; it sponsored a subsistence brochure and newsletter; it published a book on the park's bird life; and it played a major role—financially and logistically in sponsoring the park's annual Winterfest. The internships, the tour booklets, the twice-yearly Alpenglow issues and Winterfest-related activities became staples of the association's assistance program and have continued to the present day. To these efforts, in 2004, were added assistance in preparing exhibits for the new science and learning center and assistance in preparing the new Heartbeats of Denali film for the new visitor center.165 In addition, ANHA has funded sundry other guidebooks, brochures, exhibits, and similar materials over the years.

Another way in which the Alaska Natural History Association was able to further park purposes was through its sponsorship of the Denali Institute. Wallace and Jerryne Cole, from Camp Denali, had spearheaded the establishment of this nonprofit educational organization, which was established in December 1998; its purpose was to provide

Figure 2. Park Cooperating Association Revenues, 1960 to Present

Mount McKinley Natural History Association:

| Year | Total Sales | Program Support | Year | Total Sales | Program Support |
|------|----------------|--------------------|------|----------------|--------------------|
| 1960 | \$994 | \$345 | 1965 | \$2,881 | \$866 |
| 1961 | 1,824 | 563 | 1966 | 3,820 | 584 |
| 1962 | 2,689 | 245 | 1967 | 3,530 | 2,323 |
| 1963 | 2,681 | 275 | 1968 | 5,494 | 705 |
| 1964 | 2,513 | 220 | 1969 | 4,858 | 2,687 |

Alaska National Parks and Monuments Association:

| Year | Total Sales | Program Support | Year | Total Sales | Program Support |
|------|----------------|--------------------|------|----------------|--------------------|
| 1970 | n.a. | \$ 956 | 1974 | \$39,025 | \$5,037 |
| 1971 | \$18,758 | 7,255 | 1975 | 46,818 | 3,534 |
| 1972 | 21,474 | 3,988 | 1976 | 81,815 | 5,485 |
| 1973 | 29,796 | 3,840 | 1977 | 109,236 | 7,078 |

Alaska Natural History Association:

| Year | Total Sales | Program Support | Year | Total Sales | Program Support |
|------|----------------|--------------------|------|----------------|--------------------|
| 1978 | \$119,807 | \$ 6,120 | 1993 | \$1,733,394 | \$487,987 |
| 1979 | 155,633 | 21,053 | 1994 | 1,869,087 | 480,065 |
| 1980 | 159,629 | 25,012 | 1995 | 2,117,393 | 514,967 |
| 1981 | 190,783 | 35,480 | 1996 | 2,286,380 | 574,092 |
| 1982 | 196,558 | 33,192 | 1997 | 2,328,335 | 606,989 |
| 1983 | 258,229 | 39,605 | 1998 | 2,375,109 | 444,852 |
| 1984 | 290,759 | 90,082 | 1999 | 2,538,392 | 587,191 |
| 1985 | 364,717 | 103,629 | 2000 | 2,649,662 | 531,534 |
| 1986 | 536,311 | 142,285 | 2001 | 2,713,835 | 652,073 |
| 1987 | 782,708 | 211,645 | 2002 | 3,423,993 | 854,269 |
| 1988 | 947,685 | 272,980 | 2003 | 3,307,124 | 787,629 |
| 1989 | 911,807 | 261,485 | 2004 | 3,934,247 | 908,664 |
| 1990 | 1,181,839 | 285,570 | 2005 | 4,415,455 | 828,503 |
| 1991 | 1,228,123 | 319,796 | 2006 | 4,998,246 | 668,170 |
| 1992 | 1,559,796 | 441,206 | 2007 | 5,573,600 | 710,968 |

Note: "Total Sales" includes sales of all branch sales, tour booklets, etc. "Program Support" includes all revenues given back to the NPS (either the park or the regional office) resulting of cooperating association revenues. Source: Charles Money files.



While the original Eielson Visitor Center was being torn down and a new one constructed, 2005 to 2008, a temporary contact station was provided in a large fabric-membrane structure at Toklat. That structure, shown above, contained a visitor information area, exhibits, and an ANHA sales area. NPS Photo

park visitors with in-depth field programs on the natural, cultural, and political history of the area. Beginning in 1999 it offered a program that monitored songbird populations in the Kantishna area; two years later, it broadened its scope by colluding with the NPS and hosted college-level (UAF accredited) field courses to entrance-area park visitors. 166 The institute remained an independent entity until 2003, when it merged with the Alaska Natural History Association; that same year, it also began to offer teacher training programs and a weeklong field camp (based at Igloo Campground) focused on wolf behavior. 167

Beginning in 2004, Denali Institute activities were subsumed within the aegis of the new Murie Science and Learning Center. Then, after the 2005 field season, ANHA leaders-recognizing that a variety of public agencies were interested in sponsoring their own learning opportunities—merged the Denali Institute and its functions into the more comprehensive Alaska Natural History Institutes. The new organization offers a variety of field seminars and teacher trainings, all of which are based at the Murie Science and Learning Center; although it often coordinates its educational offerings through the NPS, it also works through the U.S. Forest Service and other entities.¹⁶⁸ The Murie Center, in its short history, has moved to the forefront of both teaching and research, not only for Denali but for seven other Alaskan park units; not only is it a focus of education for a wide variety of public interests, but it is also a center of inventory and monitoring activities for parks throughout interior and northern Alaska.169

Future visitors to Denali can look forward to a new, improved Eielson Visitor Center. As noted above, this visitor center was built between 1958 and 1960 and expanded between 1974 and 1976. Despite that expansion, however, the huge increases in park visitation between the mid-1970s and the mid-1990s brought increasing overcrowding problems to the site—particularly on cool or windy days, which are all too common in the vicinity-and there was also a widespread recognition that the facility was too visually intrusive in that isolated, treeless area. Based on that reality, the agency recommended, as part of its 1996-97 Front Country Development Concept Plan, that Eielson Visitor Center be demolished and replaced with a more modern, ecologically sensitive structure.170 Specific steps needed to fulfill that goal took place in 2003, when agency officials completed most of the design work for a new structure, and in the spring of 2004 the agency approved an environmental assessment that allowed construction work to begin.¹⁷¹ That September the 44-year-old visitor center closed for the last time, and demolition began in mid-summer 2005. Present plans call for a new Eielson Visitor Center, which will have more than twice the interior space as the former facility, to open in the spring of 2008.172

Interpreting Beyond the Park's Boundaries

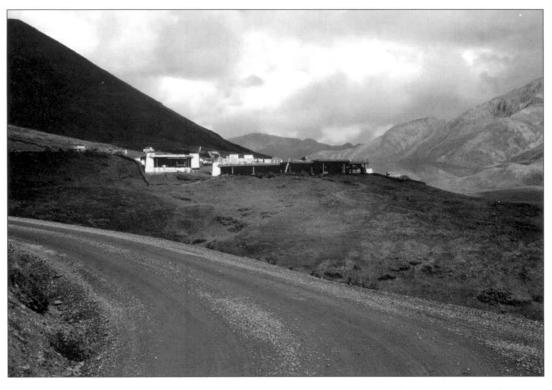
For more than a half-century after the park's establishment, NPS staff had few opportunities to broadcast the park and its attractions to non-visitors. To some extent this was because the park's small staff and limited budget constrained opportunities for these types of activities. In a

larger sense, however, the problem was technological: the only realistic media for speaking to a non-park audience was public speaking along with slides or movies, and the time and expense of riding the Alaska Railroad to outside communities severely limited the opportunity for these public presentations.

Given those constraints, park staff-almost always the superintendent—did speak to outside groups from time to time. During the mid-1920s, Supt. Karstens spoke to both the Anchorage Chamber of Commerce and the city's Women's Club.173 Beginning in 1934, the agency reached out to territorial residents when federal-building offices opened in Fairbanks and Anchorage. Both offices turned out to be temporary, however.174 No sooner had World War II ended than Acting Superintendent Grant Pearson spoke to several Anchorage civic organizations about park development, he gave several illustrated talks in both Anchorage and Fairbanks, and from 1946 to 1948 NPS rangers attended both the Fairbanks Ice Carnival and the Anchorage Fur Rendezvous, where they served as event judges.¹⁷⁵ From 1950 to 1952, as noted above, Superintendent Pearson made frequent wintertime trips to the military base at Big Delta, where he gave talks and showed movies.¹⁷⁶ Pearson retired in 1956, but he continued his outreach efforts in later years; in 1960 park staff lent him the film The Wilderness of Denali "for showing to native children along the Yukon River," and three years later he borrowed two films to show at various Fairbanks-area military facilities and to Nenana school children. 177

Throughout this period, access problems made it difficult to provide interpretative messages to the various communities on the park's margins. But soon after the Anchorage-Fairbanks Highway was completed in 1971, park personnel began to increasingly interact with these and other local populations. The first year that the new road was open, park staff presented "environmentally oriented talks" to "schools and special groups" in Healy, Clear, Nenana, and Fairbanks, and elsewhere. In 1973 Daniel Kuehn, the new park superintendent, noted that "efforts have been made to bridge the communications gap between the neighboring communities of Healy and Cantwell," but he candidly admitted that the park's efforts were enjoying more success at Healy than at Cantwell.¹⁷⁸ The park's interpretive specialist, Bill Garry, then began discussions with local school staff about how the park could assist them. The result of those discussions was an environmental education workshop, which was held in Healy in February 1975. During this period, park superintendent Daniel Kuehn-who was himself the father of a Tri-Valley School student-served as a volunteer chaperone for the school's basketball team on its road trips, and he often used those opportunities to show park films and discuss park-related issues.¹⁷⁹

Intermittent programs to local schools continued for the remainder of the 1970s and on into the 1980s, but it was not until 1991 that the park was able to expand its outreach opportunities. The first "Denali Week" was held that year, which reached over 300 students from communities from Talkeetna north to Nenana. 180 This outreach



The new Eielson Visitor Center, seen here under construction in 2006, opened in the early summer of 2008. NPS Photo



In 2007 a new interpretive program, the Kantishna Experience, was initiated, providing visitors with a thematic bus trip to the Kantishna Mining District where interpretive rangers presented programs on park history, including a visit to the Fannie Quigley House, pictured above. NPS Photo

effort expanded during the 1990s, and during the years since 2000 programs devoted to local schools have included "Denali Days," an updated version of Denali Week that includes visits to Willow and such off-road communities as McGrath, Nikolai, and Tanana; the Denali Discovery Camp program, a partnership program (with the Denali Foundation, now called the Denali Education Center) in which local students work in the field with park researchers; the Denali Science and Storytelling Camp, with a curriculum developed by the Denali Borough School

District; the "Denali Project II," a simulated climb up Mount McKinley designed for middle school students; and staff-led development of curricula based on the park's bears, wildlife populations, and mountaineering. ¹⁸¹ Most of these programs have involved either staff visits to school facilities or school-group visits to the park, but since the mid-1990s the park website has been available as a learning tool, and since 2003 the agency has been able to offer students "electronic field trips" to the park. ¹⁸²



A partnership between the NPS and the Denali Education Center, Denali Discovery Camp has provided Denali Borough School District students with learning opportunities by working on projects with park researchers. These students are learning about sound monitoring from an NPS researcher (center). NPS Photo

- ¹ Fairbanks Tri-Weekly News-Miner, December 1, 1921, 5.
- ² Frank Norris, *Gawking at the Midnight Sun: The Tourist in Early Alaska*, Alaska Historical Commission Studies in History No. 170 (Anchorage, the Commission, June 1985), 40.
- ³ Fairbanks Daily News-Miner, December 11, 1929, 8.
- ⁴ Norris, Gawking at the Midnight Sun, 42-43, 46-47, 58.
- Solution Norris, Gawking at the Midnight Sun, 49-52. As Supt. Frank T. Been noted in a letter to his superiors, "There are places on the Alaska Railroad from where the 'mountain' is startling [sic] beautiful and impressive—occasionally, more so than from vantage points in the park. ... These railroad vantage points are far south and outside the park. ... Because of Congressional importance placed on travel figures, should we include through train travel on our travel reports?" Been to Regional Director, May 7, 1941, in "Interpreter's Reports" (File 207.11), CCF, RG 79, NARA SB. Travel reports from the late 1930s and early 1940s show that while a smattering of park visitors arrived via airplane, automobile (hauled on a railroad flat car), or even by motorcycle, about 99 percent arrived by train and relied on the park concessioner for in-park transportation.

 Solvations superintendent's reports note that concessions personnel, for a short time, considered the idea of moving their main camp westward as the road was extended; in September 1925, for example, Karstens wrote that "Igloo Creek, they believe, would be the logical place for the next move." But given the Savage Camp improvements in 1926, they evidently decided against it. SMR, September 1925, 4; May 1926, 3; June 1926, 4. Also see George Lingo, "Mt. McKinley National Park," Cordova Daily Times All-Alaska Review for 1928, 31.

 New York Times, January 4, 1933, 18.
- ⁸ Lena Howard interview, August 4, 1972, Tape #506, DENA Archives; SMR, May 1926, 2.
- 9 SMR, January 1926, 2, 3; February 1926, 3.
- ¹⁰ The agency's library in Harpers Ferry, West Virginia shows that park folders have been published, revised, or reprinted every few years since the late 1920s. The only time in which more than three years lapsed between new issues was during the 1940s; due to World War II and its aftermath, no new folders were produced between 1942 and 1948. The lack of folders, in 1946, forced park staff to distribute a illustrated Alaska Railroad folder from 1941; in 1947, due to a reprinting, rangers were distributing the 1941 park guide. SMR, March 1946, 2; September 1947, 5; April 1948, 2.
- ¹¹ See, for example, *Fairbanks Daily News-Miner*, April 5, 1924, 4; July 7, 1924, 8; August 25, 1925, 4; May 5, 1926, 2; *Seward Daily Gateway*, May 26, 1927, 4; July 11, 1927, 3; May 4, 1929, 6; April 27, 1935, 2.
- 12 SMR, June 1932, 3; July 1932, 3.
- 13 SMR, June 1933, 3; July 1933, 2; August 1933, 3.
- ¹⁴ SMR, June 1934, 3; July 1934, 3; August 1934, 3.
- ¹⁵ SMR, June 1935, 2; July 1935, 5; August 1935, 5.
- ¹⁶ SMR, June 1936, 5; July 1936, 5; August 1936, 5; September 1936, 5. No motion pictures were shown at Savage River Camp during 1935 or 1936 due to a lack of power facilities at the camp.
- ¹⁷ SMR, June 1937, 3, 5; July 1937, 4; September 1937, 5.
- ¹⁸ SMR, May 1938, 4; July 1938, 4; August 1938, 5; September 1938, 3. As noted in the park's "Monthly Report of Educational Activities" (which was inaugurated in 1938), an August railroad washout forced 46 visitors to lay over for two extra days. Rangers responded to the challenge by providing impromptu lectures on the park's history, anthropology, geology, and botany.
- ¹⁹ George R. Wilson, "McKinley Now and Then," Alaska Magazine 42 (January 1976), A2.
- 20 SMR, June 1939, 3; July 1939, 4; August 1939, 3.
- ²¹ Grant Pearson, in *My Life of High Adventure* (New York, Ballantine Books, 1962), p. 188, noted that "Once I saw Frank Been outside headquarters, examining a spruce twig. He had a magnifying glass. He looked absorbed, and happy. He was back with his first love, and I began to see how strange and difficult must have been the transition from naturalist to park superintendent."
- ²² Been to Cammerer, July 13, 1939, in Folder 501 ("Publicity General"), Box 1408, General Files (Entry 7), RG 79, NARA CP. As noted in Chapter 5, Bean's attitude toward the park dogs soon changed; by the summer of 1941 Been decided to keep only sufficient dogs for longer patrols and for interpretive demonstration purposes, and during World War II the park divested itself of all of its dog teams.
- ²³ SMR, June 1940, 2, 4, 5; July 1940, 2, 3; August 1940, 3. The NPS, as noted above, had been exhibiting the park dogs at the headquarters-area kennels since the mid-1920s. In 1936, rangers catered even more to visitors' interests when they brought four young pups to Savage River Camp. The photogenic animals spent the summer in kennels not far from the camp's tourist tents. SMR, February 1936, 3; July 1936, 6.
- ²⁴ SMR, April 1941, 1, 4; May 1941, 3; June 1941, 3; July 1941, 4, 5; August 1941, 2.
- ²⁵ SMR, March 1943, 2; April 1943, 1, 2; May 1943, 1; June 1943, 2; July 1943, 2.
- ²⁶ SMR, May 1943, 2; June 1943, 2; July 1943, 3; October 1943, 2; May 1944, 2.
- ²⁷ SMR, August 1943, 2; January 1944, 1; May 1944, 2; February 1945, 1.

- ²⁸ SMR, May 1945, 2; June 1945, 2.
- ²⁹ As noted in Chapter 5, the Alaska Railroad had operated the park hotel since its initial opening in June 1939, and it had held the park concession since the end of January 1942. But because of wartime restrictions, there had been no civilian tourist travel to Alaska during the summers of 1942 through 1945, inclusively.

 ³⁰ SMR, July 1946, 2, 4; August 1946, 3; September 1946, 3.
- ³¹ SMR, January 1947, 3; September 1947, 5; November 1948, 2. The formal title of Dixon's book was *Fauna* of the National Parks of the United States; Birds and Mammals of Mount McKinley National Park, Alaska (Fauna Series No. 3); its contents were based on the data he had gathered during the summers of 1926 and 1932.
- ³² SMR, September 1947, 3; November 1947, 2; January 1948, 3; September 1948, 5.
- 33 SMR, July 1948, 3, 4; April 1949, 2; July 1949, 2.
- ³⁴ SMR, May 1946, 4; September 1947, 3; January 1948, 4; June 1948, 4. Superintendent Pearson noted that visitors were "surprisingly complimentary about the modest museum exhibits." He frankly admitted, however, that hotel staff directed many guests there "out of desperation to suggest methods for diversion." SMR, November 1947, 2; February 1948, 4.
- ³⁵ SMR, June 1948, 5; June 1951, 1; Alan K. Hogenauer, "Gone, But Not Forgotten: The Delisted Units of the U.S. National Park System," *George Wright Society Forum* 7:4 (1991), 10-11.
- ³⁶ SMR, June 1952, 2; NPS, *MOMC Park Naturalist Report*, March and June 1953, in DENA Archives; DENA Administrative History, Volume 1, Appendix D.
- ³⁷ SMR, June 1950, 2; July 1950, 3; August 1950, 2; September 1950, 3.
- 38 SMR, July 1951, 2, 3; August 1951, 2; September 1951, 2.
- ³⁹ SMR, May 1952, 2; June 1952, 2; July 1952, 2; August 1952, 4.
- ⁴⁰ SMR, July 1952, 2; June 1953, 2; July 1953, 2; August 1953, 3; September 1953, 2.
- ⁴¹ SMR, July 1950, 3; September 1950, 3. Jane Bryant (March 2007 review comments) notes that the building was moved first in 1950, and in 1952 it was moved again to its present headquarters location, north of the park road.
- ⁴² SMR, November 1950, 2; December 1950, 2; January 1952, 1; February 1953, 2.
- ⁴³ SMR, February 1950, 1; March 1951, 1; July 1952, 1; Lyman L. Woodman, *Duty Station Northwest: The U.S. Army in Alaska and Western Canada, 1867-1987; Volume Three, 1945-1987* (Anchorage, Alaska Historical Society, 1999), 55, 60, 84, 93-99. The school was later known as the Northern Warfare Training Center.

 ⁴⁴ SMR, October 1953, 2; November 1953, 2; December 1953, 2; February 1954, 2.
- ⁴⁵ Ralph Turman (Seasonal Ranger) to Chief Ranger Robert Branges, "Monthly Narrative Report" for July and August 1955, in "A2615 Monthly Narrative Report, Chief Ranger" file, Box 2, Collection 00495, DENA Archives.
- ⁴⁶ NPS, "Annual Report on Information and Interpretive Services" for 1955, January 15, 1956, in "Interpretation" file, Box 1, Collection 00495, DENA Archives.
- ⁴⁷ SMR, various dates, June 1954 to June 1957.
- ⁴⁸ NPS, *Mount McKinley, Annual Report on Information and Interpretive Services*, January 15, 1956, in "Interpretation" file, Box 1, Collection 00495, DENA Archives.
- ⁴⁹ NPS, *Mission 66 Prospectus* for Mount McKinley NP, April 1956, pp. 9-12; in NPS-TIC Microfiche Collection #184/MPNAR. Visitor centers were largely a product of the Mission 66 era; the NPS had only three such centers prior to 1956, but by 1960, 45 visitor centers had been opened or authorized. Barry Mackintosh, *Interpretation in the National Park Service: A Historical Perspective* (1986), Chapter 3, "Museums, Visitor Centers, and the New Look" section, accessed via NPS website.
- ⁵⁰ SMR, July 1956, 2; December 1956, 2, 4; NPS, Mission 66 Prospectus MOMC, p. 12 (revised April 12, 1957).
- ⁵¹ Planning documents show that the Wonder Lake visitor center proposal remained viable throughout the Mission 66 planning process and was an element of the park's master plan, which was approved in February 1959. As noted in Chapter 7, agency personnel made numerous attempts during the Mission 66 period to build a lodge near Wonder Lake, and as late as June 1960 a proposal arose that would include a visitor center in conjunction with various "concession facilities." The construction of Eielson, however, largely mitigated the need for other west-end interpretive facilities. "Proposed Interpretive Facilities" (chart MOMC-3116-A, December 1958) and "Interpretive Facilities" (chart MOMC-3116-B, February 1959), both in NPS Aperture Card Collection, TIC; SMR, June 1960, 8.
- ⁵² SMR, June 1957, 3; July 1957, 3, 5; NPS, Mission 66 for Mount McKinley NP, May 13, 1957, 8.
- ⁵³ SMR, February 1958, 5; March 1958, 5; April 1958, 4; July 1960, 5; July 1961, 2; *Anchorage Daily News*, April 11, 1958, 12; *Anchorage Daily Times*, April 12, 1958, 16.
- ⁵⁴ See E. T. Scoyen to Tony Smith, August 12, 1958, in File D30, "Mission 66 Road Issues" folder, DENA Archives; SMR, May 1957, 6, and March 1961, 5.
- ⁵⁵ Two large signs, to be installed at the Stony Hill road turnout, were crafted during the winter of 1953-54, and in 1955 personnel at both the park and regional office were hard at work on "roadside interpretational devices" at the park. SMR, February 1954, photo; July 1955, 2.

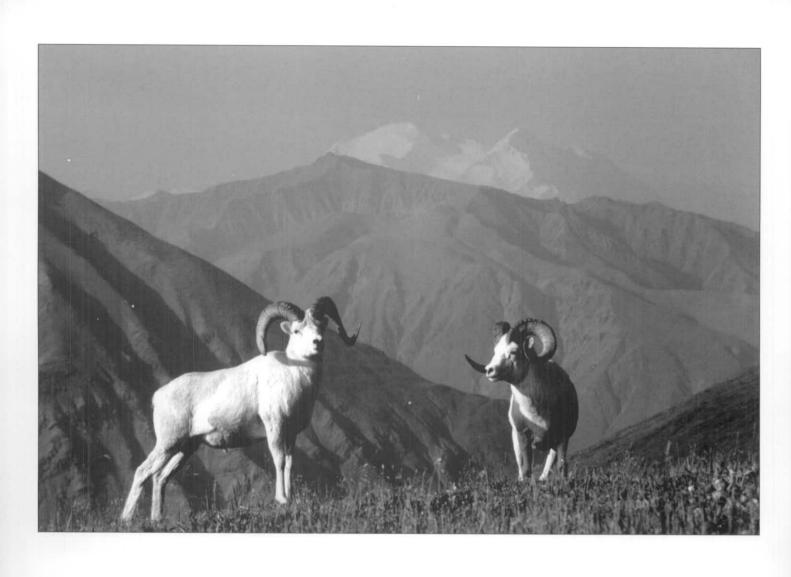
- ⁵⁶ SMR, March 1956, 2; NPS, *Mission 66 Prospectus*, p. 12 (revised April 12, 1957); NPS, *Mission 66 for Mount McKinley NP*, May 13, 1957, 3.
- ⁵⁷ [Neil J. Reid,] "Roadside Interpretive Sign Program, MOMC," in File D62-15, Visitor Center Planning, Box D, Catalog 9169, DENA Archives.
- ⁵⁸ SMR, August 1957, 3; "Proposed Interpretive Facilities" (chart MOMC-3116-A, December 1958) and "Interpretive Facilities" (chart MOMC-3116-B, February 1959), both in NPS Aperture Card Collection, TIC.
- ⁵⁹ SMR, February 1959, 3; April 1959, 3; May 1959, 6; June 1959, 4; July 1959, 4. Some of the purported downsides of a roadside sign program are discussed in "Roadside Interpretive Sign Program, MOMC," noted above. Adolph Murie, who was the park's biologist at the time, was a vocal sign opponent.
- ⁶⁰ SMR, May 1960, 4; July 1960, 7; May 1961, 6; July 1962, 5. Given the grizzlies' depredations, park personnel in later years boarded over the roadside markers each fall and removed the covers the following spring. SMR, June 1964, 3; September 1964, 2; May 1966, 3. Based on the recollections of longtime observers, park staff may have installed all 19 signs, or perhaps as few as 17.
- 61 SMR, June 1963, 2; Steve Carwile interview, December 14, 2006.
- ⁶² SMR, August 1956, 4; February 1961, 3; June 1961, 8; August 1963, 4; SAR, 1972, 7; Steve Carwile interview, January 16, 2007.
- ⁶³ SMR, November 1957, 2; March 1959, 2; June 1959, 6; June 1961, 5; March 1962, 4; August 1962, 5; August 1966, 3; May 1967, 2.
- 64 SMR, February 1963, 2; August 1964, 3; August 1965, 2.
- 65 SMR, June 1957, 4.
- 66 SMR, April 1958, 2; July 1958, 4; August 1958, 3; September 1958, 3.
- ⁶⁷ SMR, January 1950, 2; May 1953, 2, June 1953, 3; January 1956, 2; March 1956, 2; May 1956, 2; July 1956, 4; August 1956, 3; May 1957, 4; October 1957, 4.
- ⁶⁸ SMR, November 1955, 2; December 1957, 2; September 1958, 3; January 1959, 2; June 1959, 4; October 1959, 2; April 1960, 4. The momentum for a natural history handbook appears to have faded away for two reasons: park naturalist Verde Watson showed less interest for it than his predecessor, Jim Reid, and by the spring of 1960 Adolph Murie (who had been asked to review a draft of the handbook) had made it known that he had completed a manuscript on the park mammals and that he was "working on a revision of the bird manuscript." (These manuscripts, as noted below and in Chapter 12, were published in 1962 and 1963, respectively.) The information in these books largely eliminated the need for a natural history handbook.
 ⁶⁹ Nancarrow, in a note to the regional naturalist, pragmatically noted that "from the looks of our budget it will be some time before the Naturalist Division here has much money to work with and a Natural Hstiory Association appears to be the one solution which can aid our work." Nancarrow to Dorr G. Yeager, November 19, 1951, in File 871 (Associations, Club, Committees, 1951-53), Box 84, CCF, RG 79, NARA SB.
- ⁷⁰ SMR, January 1952, 4; November 1953, 2; February 1954, 2; Jane Bryant email, December 15, 2006. By this period, national park cooperating associations had been in existence for 30 years (the first had been the Yosemite Museum Association, founded in 1923), and by 1952 there were 33 such associations in operation. Yosemite Association website (www.yosemite.org/newsroom/pressreleases/2002/032203.htm) and Rose Fennell (WASO) email, January 10, 2007.
- ⁷¹ SMR, December 1958, 3; January 1959, 2; February 1959, 1.
- ⁷² SMR, August 1959, 4; September 1959, 4. More than a year elapsed between the association's founding and the receipt of Walsh's funds because his will bequeathed money to the Mount McKinley National Park Association, a group that did not exist. Neil Reid to Acting Supt. MOMC, January 18, 1960, in "Annual Reports, 1960-70" folder, ANHA financial files, Anchorage.
- ⁷³ As park naturalist (and association organizer) Jim Reid noted in early 1961, "After a slight period of uncertainty, the James W. Walsh Jr. estate was settled. The Mount McKinley Natural History Association received a total of \$16,404.59. We still have little knowledge of Mr. Walsh's past connection with Mount McKinley National Park, but we will make every effort to conduct the affairs of the Association, which he so generously supported, as a credit to his name." Reid to Supt. MOMC, January 20, 1961, in "Annual Reports, 1960-70" folder, ANHA. Walsh, it appears, had been a resident of Nassau County (on Long Island), New York, and either he or his family had been active in the American Alpine Club, which suggests that he knew Brad Washburn. American Alpine Club Photo Collection, accession P 2005.076.001 and -.002.
- ⁷⁴ The original (May 1959) entrance station, due to construction work near the Denali Highway's Alaska Railroad crossing, was placed along the road between the McKinley Park airstrip and the Alaska Railroad tracks, and northeast of the new gas station complex. A year later, with construction complete, the entrance station was moved north to a spot just east of the railroad tracks and perhaps 100 feet south of the highway right-of-way, where it remained for twelve years. NPS, "Annual Report on Information and Interpretive Activities, MOMC" for 1959 (January 15, 1960) and for 1960 (January 6, 1961), both located in "Interpretation" file, Box 1, Collection 00495, DENA Archives; Steve Carwile email, December 20, 2006; Jane Bryant email, December 27, 2006.

- ⁷⁵ SMR, June 1959, 4; July 1960, 4, 5; June 1961, 6; NPS, "Annual Report on Information and Interpretive Activities, Mount McKinley" for 1960, January 6, 1961, in "Interpretation" file, Collection 00495, DENA Archives.
- ⁷⁶ W.H. Bergen to Sen. Theodore F. Green, July 29, 1958 and August 25, 1958, and Roger Ernst (Assistant Secretary of the Interior) to Senator Green, August 11, 1958, in File A3815 ("Public Relations, 1958-60"), Box 6, Accession 9NNS 79 90 002, NARA SB.
- ⁷⁷ SMR, June 1960, 3; August 1960, 8; October 1960, 3; June 1961, 6; NPS, Annual Report, "Information and Interpretive Services," MOMC, for 1961, January 26, 1962, in "Interpretation" file, Box 1, Collection 00495, DENA Archives. In 1960, agency personnel mapped out four possible visitor center sites, all located adjacent to the park hotel. Drawing MOMC-3140 (July 1960), in NPS Aperture Card Collection, AKRO.
- ⁷⁸ SMR, March 1962, 3; May 1962, 2; June 1962, 5, 6. The other two information desks were the park orientation center (which included the museum) at headquarters (which operated during 1958 and 1959) and Eielson Visitor Center (which opened in 1960).
- 79 SMR, July 1962, 4; May 1965, 3; May 1967, 2.
- ⁸⁰ SMR, October 1962, 2; February 1963, 2; NPS, MOMC Interpretive Report, October 1962, 1, in DENA Library.
- ⁸¹ SMR, October 1962, 2; June 1963, 3, 7; August 1965; Drawing MOMC-3102-B (June 1962), in NPS Aperture Card Collection, AKRO.
- 82 SMR, April 1966, 2; May 1966, 2-3; June 1966, 2; July 1966, 3.
- ⁸³ NPS, "Information and Interpretive Services 1966 Annual Report," MOMC, February 14, 1967, in "Interpretation" file, Box 1, Collection 00495, DENA Archives.
- 84 SMR, March 1967, 1; May 1967, 7.
- ⁸⁵ Wallace Cole, in a conversation with Jane Bryant, noted that the concessioner continued to haul visitors in Navy-surplus "White" brand buses (see above) until 1960, when it obtained two 40-passenger Blue Bird buses. A third Blue Bird bus was added in 1967. Jane Bryant email, December 28, 2006.
- ⁸⁶ Alaska Review (Ketchikan), December 15, 1958, 4; "Watch for Caribou and Grizzly Bears," Sunset 128 (June 1962), 68; "The Great Wildlife Park is Alaska's McKinley," Sunset 140 (June 1968), 65; Anchorage Daily Times, May 20, 1971, 70-71; Wallace Cole observations, noted in Jane Bryant email, December 28, 2006.
- ⁸⁷ SMR, various dates, May 1963 through May 1967. In 1966, for example, daily activities included a two-hour "naturalist hike" at 8:30 a.m.; the 40-minute dog sled demonstration at 2:25 p.m.; the 40-minute "color movie" (a "film by Dr. Adolph Murie with commentary by a park naturalist" at 3:30 p.m.; and the 45-minute evening program at 8:15 p.m. NPS, "Interpretive Activities for Summer Season 1966," in "Interpretation" file, Box 1, Collection 00495, DENA Archives.
- ⁸⁸ Entries related to *Magnificence in Trust* are noted in the following SMRs: October 1966, 1; December 1966, 1; February 1967, 2; May 1967, 2. As noted in the 1966 interpretive schedule (see endnote above), a 13½-minute colored slide program at the entrance station and a tundra wildflower walk at Eielson Visitor Center were available upon request.
- 89 SMR, February 1961, 4; May 1961, 5; March 1962, 3; April 1962, 3; May 1962, 3.
- ⁹⁰ Jane Bryant email, December 28, 2006.
- ⁹¹ SMR, February 1962, 2; May 1962, 2; July 1963, 6; June 1966, 2; NPS, "Information and Interpretive Services, 1962, Annual Report" for MOMC, January 23, 1963, in "Interpretation" file, Collection 00495, DENA Archives; Steve Carwile interview, January 16, 2007; ANHA, Annual Report, 1972, 2.
- ⁹² Yeager to Supt. MOMC, November 28, 1951, in File 871 (Associations, Club, Committees, 1951-53), Box 84, CCF, RG 79, NARA SB.
- ⁹³ In 1954, an NPS official noted that "the first draft on a popular botany manual is far along," and a decade later association personnel weighed publication costs for the book. See Frank R. Oberhansley to Regional Director, Region Two, March 11, 1954, in File K 3823 ("Sales Publications, 1953-1960"), Box 91, Accession No. 9NNS 79 89 005, NARA SB; SMR, April 1964, 5.
- ⁹⁴ SMR, November 1962, 3; January 1963, 2; February 1963, 2; July 1963, 6; January 1964, 5; NPS, "Narrative Report of Information and Interpretive Services, 1964" for MOMC, January 18, 1965, in "Interpretation" file, Collection 00495, DENA Archives.
- ⁹⁵ SMR, April 1964, 5; December 1966, 1; January 1967, 2; March 1967, 3; May 1967, 3; SAR, 1975, 2; ANHA, *Annual Report*, 1964, 3.
- 96 NPS, "Articles of Incorporation of the Alaska National Parks and Monuments Association," November 27,
 1970, in "Articles of Amendment" folder, "Articles, Bylaws, and Contracts" Section, ANHA files, Anchorage.
 97 NPS, "Information and Interpretive Services, Annual Report" for 1969, MOMC, in "Interpretation" file, Box
- 1, Collection 00495, DENA Archives; NPS, "Annual Public Contact Report" (MOMC) for 1970 and 1971, in
- "Annual Reports, 1953-72" file, Box 5, ARCC-00183 (DENA 00378), AKRO.
- 98 SAR, 1972, 2, 6.
- 99 Steve Carwile email, December 14, 2006.

- Again Will Get Record Visitors," *Sunset* (Central Edition) 150 (May 1973), 59; SAR, 1972, 2. In 1973, the concessioner briefly experimented with serving hot lunches at Eielson. The logistics, however, proved difficult, and it soon reverted to serving box lunches. SAR, 1973, 2.
- ¹⁰¹ Anchorage Daily Times, May 27, 1976, Visitors Guide:32; New York Times, June 4, 1978, X:1; Anchorage Daily Times, August 24, 1980, E-7.
- ¹⁰² Anchorage Daily Times, January 4, 1973 (p. 2) noted that "9,000 tourists paid \$15 a head to ride the Outdoor World Ltd. wildlife tour buses for eight hours, but 24,279 other visitors rode free on park service-provided shuttle buses."
- 103 "Mount McKinley Again Will Get Record Visitors," 59.
- ¹⁰⁴ In early 1973, newspapers and magazines reported that park visitation from 1971 to 1972 had shot up more than 500 percent, from 58,342 to 306,027. It was soon revealed, however, that these figures represented *total* park visitation, which included all traffic on the Parks Highway. Soon afterward, the NPS agreed that a more realistic visitation figure pertained to recreational visitors; that total had roughly doubled from 1971 to 1972 (more specifically, from 44,528 to 88,615). *Anchorage Daily Times*, January 4, 1973, 2; "Mount McKinley Again Will Get Record Visitors," 58.
- ¹⁰⁵ Chief Naturalist to Supt. MOMC, "Interpretive Activities, 1975," January 15, 1976, in "Misc." file, Box 1, Collection 00495, DENA Archives. The NPS's slide show was apparently moved from the evening to the afternoon because the concessioner instituted "movie nights" offering both current and classic feature films. These films, which proved popular both for visitors and park-area employees, continued for years afterward. Steve Carwile interview, January 16, 2007.
- ¹⁰⁶ Chief Naturalist to Supt. MOMC, January 15, 1976 (see above). As noted in the 1973 *Superintendent's Annual Report* (p. 4), the discovery walk was "an interpretive innovation using the shuttle bus system to get to various parts of the park to 'discover' what is there."
- ¹⁰⁷ The historic Toklat Patrol Cabin, built by rangers Grant Pearson and Lee Swisher in 1927, is now called the Pearson Cabin. Supt. MOMC to Area Director, Alaska, "Interpretive Activities, 1976," January 11, 1977, in "Misc." file, Box 1, Collection 00495, DENA Archives; *Anchorage Daily Times*, April 22, 1976, 17; SAR, 1975, 6.
 ¹⁰⁸ SAR, 1977, 5-6; SAR, 1978, 2; Chief Naturalist to Supt. MOMC, "Annual Report Narrative, Interpretive Division" for 1978 (February 9, 1979) and 1979 (June 14, 1980), both in Catalog 9169, DENA Archives.
 ¹⁰⁹ SAR, May 1962, 3; SAR, June 1962, 5.
- ¹¹⁰ NPS, "Information and Interpretive Services 1966 Annual Report," in "Interpretation" file, Box 1, Collection 00495, DENA Archives.
- ¹¹¹ SAR, 1972, 2; 1973, 2; 1974, 8; 1975, 6; Supt. MOMC to Area Director, Alaska, "Interpretive Activities, 1976," January 11, 1977, in "Misc." file, Box 1, Collection 00495, DENA Archives.
- ¹¹² NPS, "Riley Creek Information Station" briefing statement, April 4, 1979, in "General Visitation, 1971-80" folder, DENA Administrative History Collection.
- 113 SAR, 1982, 1.
- 114 NPS, "Annual Report Narrative, Interpretive Division" for 1979; Anchorage Daily Times, August 17, 1980, E-8.
 115 SAR, 1980, 4. During the 16 days that the tent was down, NPS staff offered special programs in the main hotel lobby and West Wing lobby.
- ¹¹⁶ "Interpretive Activities, 1975" for MOMC, p. 2; NPS, "Mount McKinley National Park, Alaska" (park folder), 1973, in DENA Box 1, HFC. The trail guide had been in the works since the late 1960s; see SMR, March 1967, 2, and NPS, "Information and Interpretive Services, Annual Report" for 1969, February 17, 1970, in "Interpretation" file, Box 1, Collection 00495, DENA Archives.
- ¹¹⁷ "Interpretive Activities, 1976" for MOMC, pp. 2-3. It was still hoped, during this period, that a park natural history handbook might be published, as well as a geology handbook. As noted elsewhere, the geology handbook was completed in 1979; the natural history handbook, however, was never finished.
- 118 Steve Carwile interview, December 22, 2006.
- ¹¹⁹ SAR, 1977, 6-7; SAR, 1978, 3; SAR, 1980, 5; "Annual Report Narrative, Interpretive Division," February 9, 1979 and June 14, 1980; Charles Money to author, telephone call, January 4, 2007.
- ¹²⁰ SAR, 1980, 6; SAR, 1985, 2. NPS Director William Whelan designated 1979 as "the year of the visitor," and the emergence of the *Alpenglow* may have been one manifestation of that commemoration. *Denali Alpenglow* 1 (Summer 1979), 1; Marisa James email, January 18, 2007.
- ¹²¹ "Articles of Amendment to the Articles of Incorporation of Alaska Natural History Association," February 26, 1979; "By-Laws of the Alaska Natural History Association," March 7, 1979; both in "ANHA, etc., 1951-96" file, DENA Administrative History Collection; ANHA, 1979 Annual Report, 2, in ANHA files, Anchorage.
- SAR, 1980, 4-5; 1985, 2; 1986, 3; 1987, 5; 1991, 8; Marisa James email, January 18, 2007.
 SAR, 1987, 5; 1991, 8; Marisa James email, January 18, 2007; Ingrid Nixon email, March 23, 2007.
- 124 NPS, Draft GMP, DENA, 16; NPS, Final GMP, DENA, 18.
- ¹²⁵ SAR, 1987, 3; 1988, 1; 1989, 2; 1990, 2.

- 126 NPS, Denali Alpenglow, 1992, 12.
- 127 Wallace Cole observations, noted in Jane Bryant email, December 28, 2006.
- ¹²⁸ The longer park tour was called the Tundra Wildlife Tour for many years; since 2003, it has been known as the Tundra Wilderness Tour.
- 129 Denali Alpenglow, issues of 1992 (p. 9) and 2003 (p. 4).
- ¹³⁰ ANHA, Annual Report, editions of 1980 (p. 1) and 1981 (pp. 1-2).
- ¹³¹ Charles Money, telephone call to the author, January 4, 2007; NPS, *Annual Report on NPS Cooperating Associations*, 1987 and 1988 editions; ANHA, *Annual Report*, editions of 1986 (p. 1) and 1991 (p. 16).
- ¹³² SAR, 1980, 5; SAR, 1984, 2; SAR, 1987, 8; Kathy Loux email, January 9, 2007.
- 133 Jane Anderson email, January 5, 2007; Kathy Loux email, January 9, 2007.
- ¹³⁴ NPS, *Annual Report on NPS Cooperating Associations*, 1986 and 1987 editions; sales chart (1959-2006) attached to Charles Money email, January 9, 2007; ANHA, *Annual Report*, 1980, 1.
- 135 Kathy Loux email, January 9, 2007.
- 136 SAR, 1985, 2; SAR, 1986, 2-3; SAR, 1987, 8.
- ¹³⁷ SAR, 1982, 1; 1983, 2; Marisa James review comments, March 22, 2007.
- ¹³⁸ Regarding book sales, Eielson has offered a natural history association sales outlet since the 1970s, but the concessioner replaced the hotel's NHA sales outlet with its own operation beginning in the early 1970s—either because of George Fleharty's on-site management, or financial arrangements made in the wake of the September 1972 hotel fire. Steve Carwile interview, January 16, 2007.
- ¹³⁹ Anchorage Daily News, August 11, 1995, B-1.
- ¹⁴⁰ SAR, 1996, 3-4; Butch Street (DSC) to author, email, April 12, 2006; Street to author, telephone call, April 13, 2006.
- 141 SAR, 2002, 7, 15.
- ¹⁴² NPS, "Finding of No Significant Impact, Construction of New Visitor Facilities in the Entrance Area, DENA," January 31, 2002, courtesy of Steve Carwile.
- ¹⁴³ SAR, 2002, 15; SAR, 2003, 7, 19; NPS, "National Park Service to Dedicate New Murie Science and Learning Center," *AK2Day* (electronic AKRO newsletter), August 12, 2004.
- ¹⁴⁴ NPS, "New Facilities and Visitor Services in Denali Opening in May," *AK2Day*, May 5, 2005; "Focus on the Parks," *Arrowhead* 12 (Spring 2005), 2; NPS, "Park to Celebrate Completion of New Visitor Facilities with Special Activities" (DENA Press Release), August 9, 2005.
- 145 SAR, 2002, 12.
- ¹⁴⁶ SAR, 1977, 3; SAR, 1978, 1-2; SAR, 1983, 2; SAR, 1984, 2; Roger Robinson interview, January 23, 2007. The Student Conservation Association, according to its website, is a nationwide nonprofit founded in 1957; it introduces high school- and college-age students to careers in the conservation field.
- ¹⁴⁷ SAR, 1989, 2; SAR, 1990, 2; NPS, "Talkeetna Mountain Exhibit" (Drawing DENA-13003, sheet 2 of 12), August 1989, in TIC Aperture Card Collection, AKRO.
- 148 SAR, 1995, 9; SAR, 1996, 5; SAR, 1997, 5; SAR, 1998, 5.
- ¹⁴⁹ Robert Cunningham, who served as park superintendent from 1980 to 1989, noted in an October 13, 2004 interview that "as budgets went down ... the only place you can really cut, and still maintain the mission of the park, is in interpretation. That's the only place you can cut."
- ¹⁵⁰ SAR, 1995, 12; Marisa James review comments, March 2007.
- 151 SAR, 1996, 13; 1998, 8; 2004, 8.
- ¹⁵² SAR, 1997, 7; 1998, 11; NPS, "Volunteers in Parks, Annual Activity and Expense Report" (DI-150), DENA, 1999 through 2006. Marisa James notes that the hours expended by SCA workers are included in the park's volunteer total, and in fact SCA workers since the mid-1990s have contributed most of the park's volunteer hours.
- 153 Kris Fister email, January 18, 2007.
- 154 Denali Alpenglow 14 (Summer 1992), 12.
- 155 SAR, 1993, 3; SAR, 1995, 5; Jane Bryant review comments, March 26, 2008.
- 156 SAR, 1998, 5; SAR, 2002, 13.
- ¹⁵⁷ Denali Alpenglow, editions of 1992 (p. 11) and 2003 (p. 10); SAR, 1995, 9; 2003, 11; Marisa James email, January 18, 2007.
- ¹⁵⁸ Denali Alpenglow, editions of 2003 (pp, 10-11) and 2006 (pp. 10-11).
- ¹⁵⁹ Kris Fister email, January 19, 2007.
- ¹⁶⁰ SAR, 1995, 11; NPS, Annual Report on NPS Cooperating Associations, 1995.
- ¹⁶¹ NPS, Annual Report on NPS Cooperating Associations, 1987 and 1988.
- ¹⁶² The quote is from NPS, *Management Policies* (December 1988 edition, p. 7:5); its intent is based on authorization language contained in the U.S. Code, Title 16, section 17j-2(e).
- ¹⁶³ New ANHA-sponsored books during this period included Sheri Forbes's *The Nature of Denali: Denali National Park Entrance Area Trail Guide* (1992), William E. Brown's park history, *Denali, Symbol of the Alaskan*

- Wild (1993), Jon Nierenberg's A Backcountry Companion for Denali National Park (1995); and NPS, Denali Adventures: Activities for People Young at Heart (1997).
- ¹⁶⁴ Alaska Natural History Association, Annual Report, editions of 1993 (p. 9) and 1996 (p. 10).
- ¹⁶⁵ NPS, *Cooperating Association Annual Report of Aid and Revenue*, editions of 2002 (p. 8), 2003 (p. 6), and 2004 (p. 6); Marisa James email, January 18, 2007. The book on the park's bird life is *Birds of Denali*, by Carol McIntyre, Nan Eagleson, and Alan Seegert (2002).
- ¹⁶⁶ Jerryne Cole, "A History of the Denali Institute," unpublished manuscript, February 2007, courtesy of Ms. Cole.
- ¹⁶⁷ "Alumni from the 1980s," Univ. of Tennessee website (www.bio.utk.edu/division/alumni/1980.htm); NPS, *Cooperating Association Annual Report of Aid and Revenue*, 2003 edition, p. 6; Philip Hooge email, January 17, 2007. In the fall of 2006, this camp (now part of the Murie Science and Learning Center) was moved to a site near Teklanika Campground. Ingrid Nixon email, March 23, 2007. On January 1, 2008, the Alaska Natural History Association changed its name to the Alaska Geographical Association to better reflect its new role as an educational organization focused on Alaska's natural and cultural heritage.
- 168 "Alaska Natural History Institutes," from ANHA website (www.akaskanha.org/alaska-institutes.htm).
- 169 Ingrid Nixon email, March 23, 2007.
- ¹⁷⁰ NPS, Final Development Concept Plan, Entrance Area and Road Corridor, December 1996, 23-56.
- ¹⁷¹ NPS, "Eielson EA Out for Comment," *AK2Day*, April 11, 2004; NPS, "Comment Period Extended for Environmental Assessment for the Construction of a New Eielson Visitor Center and a Permanent Toklat Rest Stop," *AK2Day*, April 26, 2004.
- ¹⁷² Anchorage Daily News, September 22, 2004, B-1; NPS, "New Facilities and Visitor Services in Denali Opening in May," *AK2Day*, May 5, 2005; Mary Tidlow email, July 26, 2006.
- ¹⁷³ SMR, May 1924, 3; William E. Brown, *Denali: Symbol of the Alaskan Wild* (Denali National Park, Alaska Natural History Association, 1993), 135-36.
- ¹⁷⁴ SMR, November 1933, 2; April 1934, 5; June 1940, 3; January 1942, 1.
- ¹⁷⁵ SMR, September 1945, 2; March 1946, 1; February 1947, 2; February 1948, 3; April 1949, 2.
- ¹⁷⁶ SMR, February 1950, 1; March 1951, 1; July 1952, 1; Lyman L. Woodman, *Duty Station Northwest: Volume Three, 1945-1987*, 55, 60, 84, 93-99.
- ¹⁷⁷ SMR, October 1960, 3; October 1963, 2.
- 178 SAR, 1972, 2; 1973, 9.
- ¹⁷⁹ SAR, 1974, 3; 1975, 5; Daniel Kuehn interview, October 11, 2004. Kuehn notes that one movie he showed on those road trips dealt with the "d-2" issue, a move which raised some ire among the Alaska congressional delegation.
- 180 SAR, 1991, 8.
- ¹⁸¹ SAR, 1993, 6; 1995, 12; 1998, 5; 2002, 11-13, 16; 2003, 9-10; 2004, 7-8; 2005, 5-9; *AK2Day*, May 2, 2002.
- ¹⁸² "News Update," Travel Agent 303 (April 23, 2001), 84; SAR, 2002, 9; 2003, 10.



Chapter Twelve: Natural and Cultural Resource Management

As Chapters 1 and 2 have suggested, the high valleys immediately north of the Alaska Range have been known, for more than a hundred years, because of their superb habitat for mountain sheep, caribou, and other large mammals. Charles Sheldon, who conducted expeditions into the area in 1906 and again in 1907-08, was a naturalist who, in Theodore Roosevelt's words, was primarily interested in studying "the northern mountain sheep." Sheldon, however, was "passionately devoted to all that is beautiful in nature." Thus he not only learned about "the life history of the sheep from the standpoint of its relations with its foes-the wolf, lynx, wolverine, and war eagle"—but he also wrote copious notes about the area's other megafauna along with its birds, small mammals, and plant species.1

Sheldon's enchantment with the area's large mammals is also reflected in the many letters that he wrote in favor of a national park for the area, and his concomitant interest in preserving these animals from extirpation by market hunters. As he noted in a letter to Stephen Mather in December 1915, "The region is a vast reservoir of game: sheep, moose and caribou, bears and the small animals. The building of the railroad will destroy the game for it will be killed to supply the construction camps. The idea of game reservation should also be included." Thomas Riggs of the Alaska Engineering Commission (which was constructing the Seward-to-Fairbanks railroad) gave a "most hearty endorsement" to the park idea. He did not, however, "think that there was much danger of game being killed off in the neighborhood of Mt. McKinley to supply railroad construction camps," and for that reason he stated that "we could take up the idea of game preservation when the idea of the park is thoroughly established."2

Congress, however, was more inclined to adopt Sheldon's more protectionist views. The first park bills, which were introduced in April 1916, stated that it was the Interior Secretary's duty to "make and publish ... rules and regulations" that were "primarily aimed at the freest use of the said park for recreation purposes by the public and for the preservation of animals, birds, and fish and for the preservation of the natural curiosities and scenic beauties thereof." The bill also stated that the park was "established as a game refuge, and no person shall kill any game in said park except under an order from the Secretary of the Interior for the protection of persons or

to protect or prevent the extermination of other animals or birds." But the bill also stated that "prospectors and miners engaged in prospecting or mining in said park may take and kill therein so much game or birds as may be needed for their actual necessities when short of food; but in no case shall animals or birds be killed in said park for sale or removal therefrom, or wantonly." The bill also stated that the Secretary could "arrange for the removal of such mature or dead or down timber as he may deem necessary and advisable for the protection and improvement of the park."

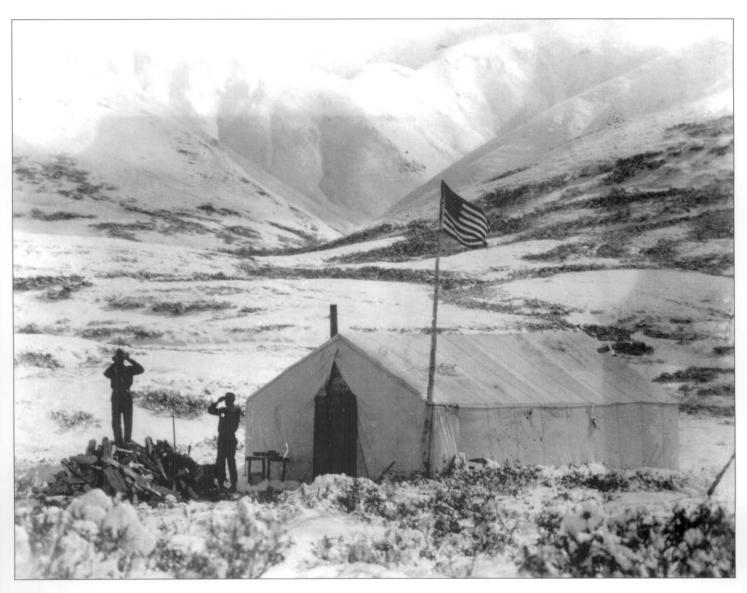
As noted in Chapter 2, both the House and Senate made minor changes to the bill over the next several months, but they did not tinker with any of the resource provisions as stated above. Therefore, the bill that President Wilson signed into law provided a mixed message as it pertained to resource preservation; it explicitly called for the "preservation of animals, birds, and fish ... and natural curiosities," but it also stated that recreation needs, plus the subsistence needs of miners and prospectors, also needed to be considered in the park's overall goals.⁴

Natural Resource Management: The Early Years

No active park management took place until June 1921, when newly-appointed superintendent Harry Karstens arrived in the area and commenced his first patrols. According to agency policy—which was still being developed in the five-year-old organization—superintendents were instructed to complete a monthly report of conditions in each park and submit them to the director; that report, moreover, needed to include up-to-date information on the various parks' animal life. After his first patrols into the park, Karstens made the following observations about the park's "wild animals:"

At the forks of some of the streams through which the [proposed] road would run, sheep and caribou mingle in large numbers making a most beautiful sight. The sheep wander down from the higher region in the morning and feed on the bars till well into the after noon then work up again into the rocky cliffs for the night. The caribou wander in most any direction where ever the feed is best. Prospectors who came through the upper passes this spring report having seen large numbers of caribou and sheep mingling

NPS Interp. Collection, #2710, Denali National Park and Preserve



Olaus Murie set up his caribou capture camp in the upper Savage River. Clara Rust Collection, 67-110-500, University of Alaska Fairbanks Archive

together, principally at the head of the Toklat River and between Savage and Sanctuary rivers. Their estimate was far greater than I have ever seen, but I could vouch for at least 600 sheep and 350 to 400 caribou mingling together on the river bar. This of course is in summer when caribou are scattered all over the park in small and large bands. In the winter the herd is much larger; they band up for protection and keep to the lower slopes on the northern boundary of the park.⁵

In his initial reports, Karstens included wildlife information under a bewildering variety of subject categories. But by the end of 1922, his notes on "game" (and, occasionally, "poaching") gave Washington officials consistent information about park wildlife and the level of its protection. Given the fact that the superintendent had almost the entire burden of park management during his first months on the job, his early wildlife reports were pragmatic rather than scientific. They show that he was primary concerned with the park's sheep and caribou populations: how many there were, their migration patterns, how safe they were from hunters, and their health status. Only occasionally did he make notes about other animals: bears, moose, lynx, or ptarmigan.⁶

The first instance of specific management of the park's wildlife populations took place in 1921 under the auspices of the U.S. Bureau of Biological Survey (BBS). Agency head Edward W. Nelson, in a letter to Stephen Mather of the NPS, stated that the BBS was "collecting specimens of Alaskan big game for the purpose not only of learning definitely the distribution of the various game animals of North America but to serve as material for the monographic of these animals." He therefore wanted permission to "collect skulls of mountain sheep, caribou, big bears, and other game animals which [Karstens] may find scattered about in the park where these animals have been killed." In addition, however, he wanted permission "for Karstens to kill one specimen of large bull caribou each month in the

park for a period of twelve consecutive months ... for the purpose of showing the changes in the pelage which take place and which cause these animals to appear differently colored at different times." Mather readily acceded to Nelson's request, and in May 1922 Karstens informed Nelson, "with some relief and pleasure," that in April he obtained his first specimen, from the Sable Mountain area.7 Several more skulls and hides were procured and shipped later that year, and perhaps during 1923 as well; and in July 1923, biologists Adolph and Olaus Murie-acting on Karstens's instructions—shot a sheep inside the park's boundaries and hauled it to the McKinley Park railroad depot in order to feed President Harding's touring party.8

A similar, though less lethal, management action took place during this same period, again at the BBS's behest. In 1920, Nelson had hired Olaus Murie as an "Assistant Biologist and Federal Fur Warden" in order to map the Alaska caribou's migratory routes, estimate their numbers and study their habits.9 Given the major importance of Alaska's reindeer industry at the time, Nelson in early 1922 asked Murie to find a place where some of the wild caribou could be trapped alive to be transported to the coast of the Bering Sea, where they could be bred with the reindeer of the Eskimo herds in order to improve the reindeer stock. (Dressed reindeer carcasses typically weighed "about 150 pounds each," while woodland caribou reportedly weighed "between three and four hundred pounds," and because "there is no question but that they would breed readily and the offspring would be fertile," Nelson hoped that the capturing program would help "in building up one of the great resources of the Territory.") Murie felt that the newly-established national park would be a suitable place for the caribou trapping; this was because the Alaska Range (according to Nelson) offered large-sized caribou and because portions of the park were close to the railroad.10 By June, Murie had written to Karstens, hoping that the two could travel into the park "to look over [the] possibility of capturing young bull caribou." Murie arrived at the park headquarters on July 3, and in August he and his crew "practically built" the corral at the Savage River's headwaters." Adolph Murie, a recent college graduate, joined his brother as an assistant soon afterward, and the two field biologists spent the next five weeks collecting "some bird and floral specimens" as well as gathering general information on the park's birds and animals. The following summer, they returned to the park and successfully continued their scientific work. Their caribou-capturing program, however, failed; one source states that the one young bull they caught managed to escape from

them on the way from the Savage River corral to the McKinley Park railroad station, while another source suggests that five caribou made it as far as Fairbanks, although none made it to their intended target along the Bering Sea coast.¹²

Also in 1922, park officials were called on to manage a new action involving reindeer and caribou. Biological Survey officials, on the one hand, had assisted the Western Alaska reindeer industry during the early 1920s; they were, however, reluctant to bring reindeer east into caribou country, fearing that crossbreeding would produce inferior caribou stock. Territorial Bureau of Education William Lopp, however, felt that major new reindeer markets could be realized if a herd could be established along the Alaska Railroad's right-of-way, so in October 1921, six herders began escorting 1,162 reindeer from Goodnews Bay (in southwestern Alaska) up the Kuskokwim River drainage to the Tonzona River, where they remained throughout the spring and early summer.13 Much to the chagrin of both Biological Survey and NPS officials, caribou entered the park in the summer of 1922, and by mid-August a herd numbering 1,600 was "resting just within the [eastern] park boundaries." A month later, the herd reached its destination in the Broad Pass area southwest of Cantwell.¹⁴ Park officials during this period were doubtless alarmed at the herd's nearby presence, but given the lack of staff they had no ability to either monitor or control its movements.

Knowledge of, and publicity about, the park's biological diversity improved substantially over the next few years, primarily due to cooperation between Karstens and Olaus Murie. In the fall of 1924, for example, Karstens began preparing a statement on park game for Murie's agency that went well beyond his regular monthly updates. Based on that statement, plus Murie's work dating back to 1922, Murie in late 1925 sent a package of information to Washington on the "flora, fauna, and natural phenomena" of the park. An article extolling the park's wildlife, based on an August 1925 visit, appeared in the nationallypopular Saturday Evening Post.15 Also, beginning in December 1925, Karstens broadened his zoological coverage—which had previously been based on sheep, caribou, poaching incidents and such animals as had been commonly seen near camps—to include scientific notes on such diverse species as moose, bear, birds, porcupines, fox, and rabbits.16

Park staff also monitored the health of the various animals they observed. In October 1924, a ranger on a patrol near Cantwell observed a large bull caribou stagger and fall dead, and when he



In 1926 Joseph Dixon and George Wright conducted natural history investigations in Mt. McKinley National Park, identifying 86 species of birds and 25 species of mammals. This photo of a young wandering tattler was one of 350 photographs taken during their 72 days of fieldwork. Joseph Dixon, #5296, Museum of Vertebrate Zoology, University of California Berkeley

discovered that his hind leg, hoof, and "whole left side was bloated and swollen," the situation was considered sufficiently serious that a Washington-based agency official penned a word of warning to his counterpart at the Bureau of Biological Survey. The following summer, a guide reported that "large numbers of park caribou are dying of some disease." Geologist Stephen Capps, however, quashed the rumor by stating that during his extended wanderings he had observed only six dead animals. No subsequent disease-related deaths, moreover, came to light.

During the summer of 1926, the park received its most extensive wildlife survey to date. Joseph Dixon, who had been one of Joseph Grinnell's students at the University of California Museum of Vertebrate Zoology, arrived at the park in mid-May "collecting specimens of this park's mammal life." Accompanying the recent graduate was his assistant, George M. Wright, who was still a University of California student. The study, which was financed by John E. Thayer and the Museum of Vertebrate Zoology, was done under the NPS's auspices because Grinnell, according to historian Richard Sellars, "may have been the most consistently vocal advocate for managing the parks on a more scientific basis," and because the agency, just a year earlier, had established its "Education Division" (which served a natural history function) on the Berkeley campus. Dixon and Wright remained in the park until the end of July and,

according to Karstens, "returned to the States very favorably impressed with the large variety of wild animal and bird life existent here," and Wright distinguished himself by locating the nest and eggs of the elusive surfbird. Wright, who was independently wealthy, was so impressed by the venture that he joined the Park Service, at Yosemite, and in 1928 he proposed that the NPS undertake a national survey of park fauna using much the same methodology that he and Dixon had employed at Mount McKinley.²⁰

By 1926, the area's reindeer herd—which had been brought to the Broad Pass area four years earlier—was dwindling. Poor herding practices and wolf predation were partly to blame, but of greater concern to Park Service officials was a tendency for these animals to interbreed with migrating caribou herds. Karstens, by this time, finally had sufficient staff to monitor the various park caribou herds. Because he wanted to "keep the caribou stock free from contamination with reindeer," he asked his rangers to keep "strict watch ... for stray reindeer ... especially the white reindeer" and to eradicate any reindeer found within the park's boundaries. Their scrutiny continued through the fall of 1927. So far as is known, park staff neither identified nor shot any reindeer among the park's caribou herds.21

There was also an ongoing threat to the park's caribou and sheep from miners and prospectors,

The male willow ptarmigan in breeding plumage can be seen in spring. Joseph Dixon took several pages to describe this park resident in his 1938 publication, Fauna of the National Parks of the United States: Birds & Mammals of Mount McKinley National Park , Fauna Series No. 3. Adolph Murie Photo, Harpers Ferry Center, NPS

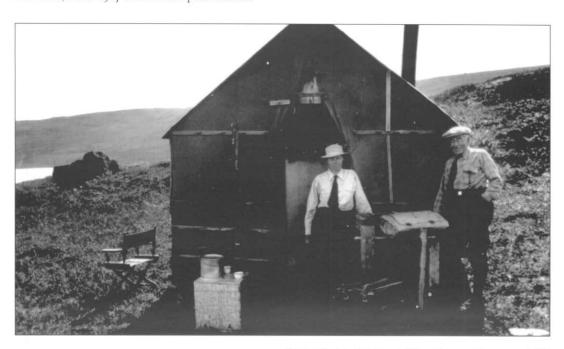


primarily those based in the Kantishna area. As noted in Chapters 2 and 4, the original park bill had explicitly condoned the harvesting of such "game or birds as may be needed for their actual necessities when short of food," but Karstens and his rangers found it nearly impossible to enforce this provision in the field. The annual number of park animals harvested during the 1920s will never be known, and as late as 1927, Karstens noted that due to extensive patrols, the "illegal slaughter of caribou and mountain sheep was held down to a minimum." Park officials, however, continued to press for a prohibition of hunting. President Hoover finally signed a hunting provision into law in May 1928, and later that year, NPS officials expressed their gratitude for its passage inasmuch as "much killing was done illegally which could not be controlled."22

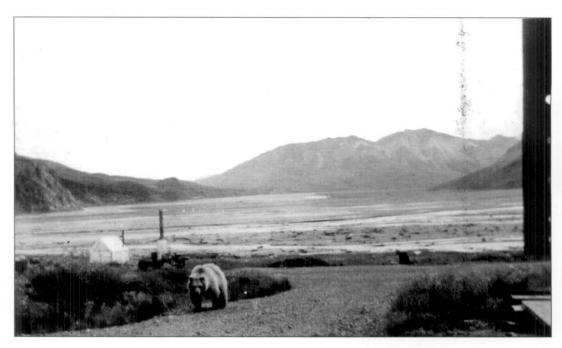
During the remainder of the 1920s, park staff did their best to monitor the park's animal populations. Beyond the usual concerns about caribou and sheep, they took note about the park's fluctuating "snow-shoe rabbit" and ptarmigan numbers; a late-1927 crash in the park's rabbit population, which was widely perceived to take place every seven years, brought attempts at an explanation and detailed observations of the crash's impact on other park animals. A similar concern—unfounded, it turned out—was also expressed about the park's ptarmigan population.²³ No attempts were made to scientifically tabulate any of the park's animal species, and estimates from this period are wildly inaccurate, in all probability.²⁴

During the 1930s and early 1940s (see next section), most wildlife-related interest at the park was devoted to wolves, sheep, and caribou. Some attention, however, was also given to rabbits and ptarmigan²⁵ along with occasional notes on unusual observations (initial discoveries or large numbers) of specific mammals (mice, weasels, and black bears) and bird species (seagulls, Canadian geese, etc.).26 Given the agency's continuing needs to collect and provide wildlife-related information, Superintendent Liek in 1932 appointed David Kaye to be the park's first ranger-naturalist. This position remained, on either a seasonal or permanent basis, until early 1938, when Liek appointed Aubrey F. Houston as the park's first wildlife ranger. This position remained until the outbreak of World War II, with its consequent staff reductions; in 1944, the agency's directorate abolished the "wildlife ranger" designation.27

In June 1928, the park received a major boost when two women—Ynez Mexia accompanied by her assistant, Frances Payne—arrived at the park to collect "wild flowers and plants for the University of California and other institutions." The 58-year-old Ms. Mexia had been born in Washington, D.C. but had later moved to the Bay



Dr. Aven Nelson and his wife Ruth arrived at McKinley Park on June 23, 1939 and by the end of the summer had collected and pressed over 500 floral specimens. DENA 28-91, Denali National Park and Preserve Museum Collection



This grizzly bear was photographed near the Alaska Road Commission cabin and camp at Toklat during the late 1930s when the ARC performed all road maintenance for the park. Beatrice Herning Collection

Area; at age 51, she began taking natural science courses at the university. In 1926 and 1927 she took a botanical expedition to Mexico, where she had identified 50 new plant species, and at the suggestion of Joseph Dixon she took a similar trip to Mount McKinley. Mexia and Payne spent several weeks in the park, collected 6,000 plant specimens, and brought them back to the university's herbarium. Karstens noted that their venture was "the first careful study" of the park's botany.²⁸ Their efforts were supplemented in 1932, when ranger David Kaye amassed a large wildflower collection, and the following summer, when Ella Scott arrived at the park from New York and spent the summer "gathering a collection of wild flowers and plant life." Other early collectors included W. A. Setchell (1932), Fritz Went (1934), and Edith Scammon (1936).29 In 1939, Dr. Aven Nelson (a longtime botany professor at the University of Wyoming) and his wife Ruth Nelson spent the summer "actively engaged in their botanical mission of collecting and cataloguing the plants of the park," and beginning in 1939, Louise Murie assembled a "thorough collection of the park's flora."30

Throughout the prewar period, staff made numerous notes on the effect of human activities on the park's animal populations. As early as 1925, Karstens noted that sheep "seem to be getting more accustomed to the human activities in the park. The great amount of blasting and noise along the park road has not affected them in the least. If anything, they are more tame than ever." Similar comments were echoed the following spring, when he noted that sheep "do not seem to be afraid of visitors and their camera 'guns.'" A driver of a concessioner's vehicle, in fact, noted that "If they get any tamer, they will

be butting our cars off the road." During the winter of 1928-29, ranger Bill Myers noted that he and Fritz Nyberg kept several sheep as pets while staying at the Igloo and Toklat cabins. And in 1933, truck drivers west of Igloo reported that the sheep were "getting so tame that they will hardly move out of the road to let the trucks pass, and often the truck will have to be brought to a complete stop to keep from hitting some of them."31 In 1928, park staff observed that various moose "don't seem to pay much attention to cars passing along the highway." In 1940, several wolves were seen feeding from the kitchen waste at the dump adjacent to the ARC camp at Mile 49. Caribou occasionally brushed close to traffic along the park road; in general, however, park staff noted that they "have a wild roving disposition and it is very seldom that you can get within one hundred yards of them."32

Bears could also be a problem. As noted above, park hunting was sanctioned under certain conditions between 1917 and 1928. During this period, agency staff observed relatively few bears; Karstens seldom noted them in his reports, and George Wright and Joseph Dixon had noted just three bears (a sow and two cubs) during their 72-day visit to the park in 1926.33 But just a few months after the Congress passed the bill prohibiting hunting in the park, "two or three large grizzlies" showed "no fear of road crews," and "on one occasion, while the crew were eating lunch in the lunch tent, ... a large grizzly coming up the trail headed directly for the tent." The crew, in response, "beat on dish pans and pails. The bear seemed astonished at the noise but not at all frightened." Dixon, during his 1932 sojourn in the park, noted "eighteen grizzly bears and one brown bear in the same area that we covered

in 1926." That same summer, "five park cabins were ravaged by bruin before he decided to hibernate for the winter." Rangers, as a result, put new shutters and doors on all twelve of the park's northern and eastern boundary-line cabins.34 But the problems continued. A bear broke into a Toklat cabin in 1934, and in mid-September 1937 a grizzly bear became so habituated to food at the Mile 29 ARC camp that Supt. Liek was forced to shoot it.35 In 1938, two bears spent "considerable time around the cache" at the East Fork ARC camp, and two years later grizzlies were seen at both Camp Eielson and at the dump adjacent to the Mile 49 ARC camp. Additional cabin break-ins, caused by bears, took place in 1942 and 1944.36

People along the road—park staff, concessions personnel, road crews, and visitors—sometimes played a fairly direct role in managing the park's animals. Foxes, in particular, were "very tame." In 1928, a staffer noted that "one red fox has been teasing the dogs at the kennels," another frequented the Igloo road camp's garbage dump, and a year later "some of the construction camps had fox so tame that they would eat from your hand." And for the remainder of the prewar years, such behavior was noticed from time to time at the shelter cabins, road construction camps, and at headquarters.³⁷ The park's bird life was likewise affected; during the summer of 1929, staff noted that "birds of all kinds are apparently

becoming more numerous each year as more camps are established and as a consequence more feed is thrown out for them." In 1932, ptarmigan were reported as being "quite tame" near the railroad depot. A 1925 visitor reportedly had "a ground squirrel eating out of his hand and a family of ptarmigan feeding around his feet." Karstens, commenting on the incident, noted "It is interesting how wild life will respond to those who love them."³⁸

Under certain circumstances, rangers tried to assist the park's large mammals. In February 1924, for example, rangers on a patrol just east of the park boundary "observed a caribou which had fallen through the ice about eight feet deep and [was] unable to get out." In response, the rangers—with Karstens's permission—"pulled him out, tied his feet together, hauled him to camp on a dog sled and turned him loose in the rear end of the barn." Karstens offered the animal to the agricultural college in Fairbanks, the offer was accepted, and in early March the caribou was crated up and placed on a northbound train.39 In 1927, ranger Fritz Nyberg rescued a ewe "caught in the deep snows of Sable Pass." He hauled the animal all the way to headquarters and fed it "milk and soft mash," but it died six days later. In May 1928, Nyberg "picked up a lamb away from its mother that had only been born a few hours before." Feeding it with a "bottle and powdered milk," the lamb lived at Savage Camp for a month

Much like today's visitors, park guests at Savage Tourist Camp in the 1920s and 1930s were tempted to feed the friendly Arctic ground squirrels. Beatrice Herning Collection





In May 1928, Ranger Lee Swisher and Chief Ranger Fritz Nyberg rescued a recently-born lamb, which they named Minn. They are pictured here bottle feeding the lamb along the trail. Frances Erickson Collection, Denali National Park and Preserve Museum Collection

before it "got wet in a glacier stream while overheated and died of pneumonia."40 And in April 1929, the experience of 1924 was repeated, but on a larger scale: at the end of a particularly hard winter, "rangers picked up three rams and three ewes with lamb" near Igloo. A short time later, a "McKinley Parklets" news item reported that the sheep "seem to be getting along alright on Chechoker [sic] grub. They seem to prefer most of all potatoe peeling [sic], flapjacks and tobacco." To accommodate them, rangers built a "temporary shelter pen" near the Sanctuary cabin, but soon afterward the sheep were moved to headquarters, where they remained until early August. They were shipped north to College, where officials attempted "to cross breed them with domestic sheep and endeavor to produce a sturdy wool bearing sheep that will be able to winter in Alaska."41 Efforts to consciously assist the park's megafauna largely disappeared after the 1920s, although on at least one later occasion, park staff established a salt lick to assist mountain sheep.42

During the 1930s, NPS rangers paid considerable attention to the park's wolf population (see next section). In 1931, rangers captured three wolves and hauled them to park headquarters, where they were placed in one of the dog kennels. They soon attracted "considerable attention from the tourists." Supt. Liek hoped "to raise them for breeding purposes" by "crossing them

with malamute dogs." He doubted, however, "if a satisfactory result can be attained, owing to the wildness and ferocity of the breed." Nine years later, another wolf arrived at headquarters; the week-old female pup was brought there by biologist Adolph Murie, where it became a "rambunctious play partner" for his six-yearold daughter Gail. The pup, named Wags, remained at headquarters until 1943, when the park staff-having no other choices in the matter—reluctantly shot her.43 Other animals also were brought to headquarters. Rangers, in 1940, also briefly cared for a young golden eagle that had been trapped nearby. It was fed raw meat for several days until it regained its strength and was liberated. Three years later, the presence of thousands of Army troops convinced park staff to bring three young caribou to headquarters. Acting Superintendent Grant Pearson noted that "the calves are well cared for and afford a unique opportunity to many of the boys who are unable to go into the park." They, too, were freed a short time afterward.44

More radical ideas were considered but eventually rejected. In 1928, park officials gave "some thought" to "transferring a few beaver and marten from the west end of the park to the eastern end, where they can be more closely protected and may be seen by the tourists," but the plan was never implemented. Also rejected was the idea, suggested by agricultural college officials, of using



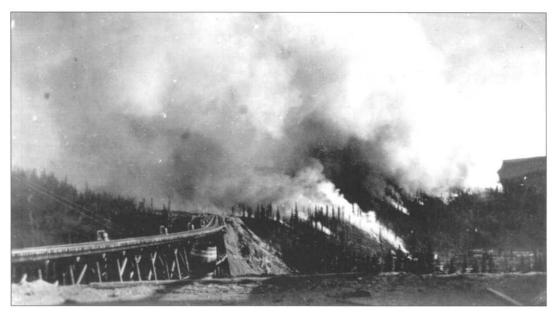
In order to study wolf behavior more closely, Adolph Murie removed a wolf pup from its den in May 1940. The wolf pup, Wags, was raised in the park by the Murie family, pictured above. Harpers Ferry Center, NPS

> the park as a grazing area for either the yak or the galoyak, the latter being a newly-developed hybrid of Galloway cattle and the Tibetan yak. The college, on two occasions during the 1930s, showed an interest in capturing live sheep to take to Fairbanks, but nothing came of these plans.⁴⁵

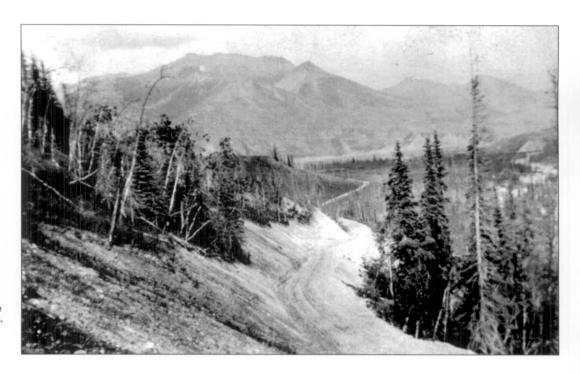
> The management of the park's forests followed general agency guidelines, which prohibited the "cutting of trees except where timber is needed in the construction of buildings or other improvements within the park" or for other specific purposes.⁴⁶ At Mount McKinley, Karstens

told his superiors in Washington that "as there is not much timber within the park boundaries ... the trees will especially have to be protected." Given that scarcity, he and his rangers did their best—through both notices and word of mouth—to tell prospectors, mining claimants, and others to avoid "cutting timber promiscuously. Rangers also tried to keep an eye out for possible insect infestation.⁴⁷

But the greatest threat to the park's timber was fire. In July 1923 a "very large forest fire" raged just east of the Nenana River near the McKinley



In July 1924, a wildland fire threatened the McKinley Station community and the first park headquarters on Riley Creek. During that tense time, all area residents turned out to help save structures in the area. This photograph shows the fire on the hillside beyond the south end of the Riley Creek railroad bridge and approaching the former railroad construction camp. DENA 8-0.5, Denali National Park and Preserve Museum Collection



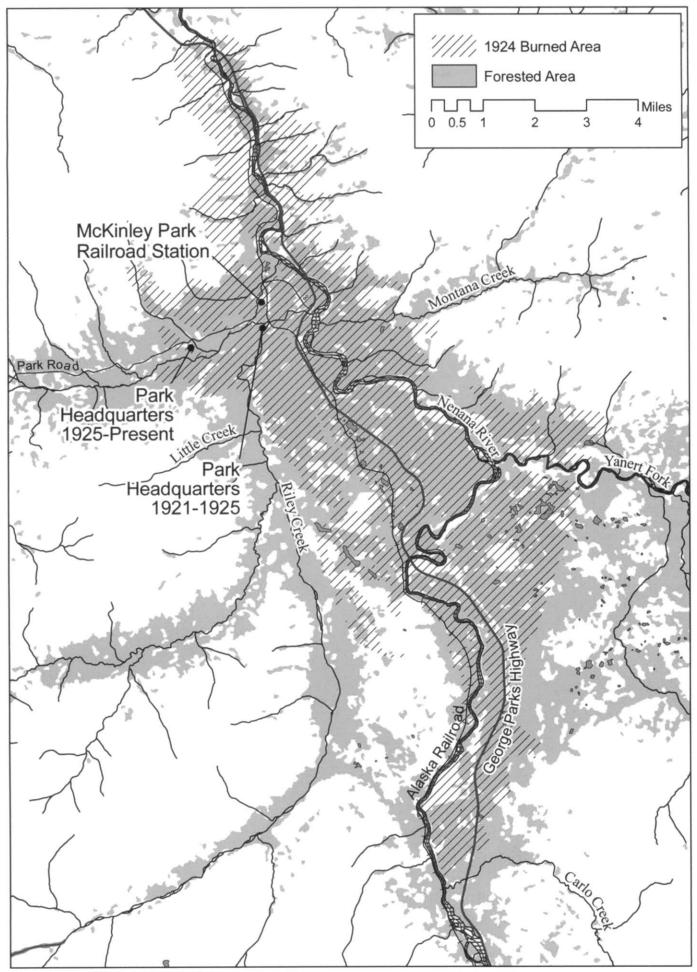
Effects of the 1924 wildland fire can been seen in this 1929 photo taken from the park road, looking toward McKinley Station and the Alaska Railroad bridge on the right. Many of the fire-killed trees adjacent to the park road were cut in the early 1930s. Herbert Heller Collection, 79-44-1316, University of Alaska Fairbanks Archives

Park railroad depot, and in June 1924 additional fires broke out "in the flats to the north" of the park as well as along the Alaska Railroad right-ofway less than three miles south of the park's Riley Creek headquarters. In early July 1924, a "large forest fire immediately south of headquarters" forced the park's three-man staff to spend all day and "long into the night" fighting it. The trio's efforts, plus the following day's rain, apparently eliminated the worst of the fire danger. But on July 14, Karstens noted that "the fire south of headquarters has broken out worse than ever," and for the next six days there was "a continual grind night and day fighting fire." On July 15, "a raging furnace of flame and smoke" came "within a hundred feet or so of Ranger McFarland's quarters," and the following day "the fire came around from the west and jumped Riley and Hines creeks and was raging on all sides of us." The fire forced the men to move "Horses, Household goods and office out on the bars of Riley creek" for two days. No buildings were lost. But when park staff on July 20 drove west from the railroad depot, they discovered that "the first half mile of country ... is a black scar, completely burned over. The next half mile is burned in patches and is still burning, working in the direction of the Park line and over a large scope of country." And the Fairbanks press, describing the area surrounding "the entrance to the National Park ... estimated that around 30 square miles have been burned over and but little good timber remains alive."48 (See Map 6.)

Immediately after the fire, park staff redoubled their efforts to remove brush piles and other potential threats. Little was accomplished immediately afterward because of the lack of park staff. But beginning in the winter of 1929-30, Supt. Liek gave rangers (and later a hired man) the task of "cutting down and clearing up the old dead trees that were along the road leading from the depot to park headquarters." Clearing out the "unsightly" timber had two purposes: it "present[ed] a much better appearance" to visitors heading up the park road, and it provided park offices and residences with a ready supply of firewood. After the 1924 fire, park staff reported no further wildfires for years afterward.⁴⁹

Predator Control and the Emergence of the Wolf-Sheep Controversy⁵⁰

Throughout the nineteenth century and well into the twentieth, Americans in general—and Alaskans in particular—were firm believers in predator control. Prior to 1900, as the tides of settlement surged westward, there was a societal emphasis on the elimination of any species that impeded crop cultivation or ranching pursuits, and during the early twentieth century, public attention was increasingly directed toward the preservation of the major species that captured the interests of sport hunters. Americans thus targeted a number of species over the years, and perhaps the most public campaigns were directed against wolves, coyotes, bears, "chicken hawks" and other raptors, plus beavers, rabbits, and prairie dogs.51 For wolves, and perhaps for other species as well, state and territorial governments assisted these efforts by offering bounties to successful hunters.⁵² In the lower 48 states, the vehemence in public attitudes against predators had waned somewhat by the 1920s, due in part to a rise in conservationist sentiment, and in addition because wolves and other predators were declining in numbers and thus causing less of an impact to more economically-



Map 6. Area Burned by the July 1924 Forest Fire

beneficial plants and animals. Federal government agencies, however, were still ardent defenders of predator control in all its forms, and the Bureau of Biological Survey—the primary agency which carried out those policies—championed predator control because of its popularity among western residents and legislators.⁵³

In Alaska, traditional attitudes toward predators were in full flower well into the twentieth century, primarily because most residents, Native and non-Native alike, depended heavily on local game and fish species for their everyday diet. In order to ensure a plentiful, ongoing supply of these products, the Alaska Legislature—which was established as a result of a 1912 Congressional act—provided bounties for wolves beginning in 1915. But despite the bounty, which was raised in 1917 from \$10 to \$15, Alaska Governor Thomas Riggs in 1919 noted that wolves were "becoming a great menace to game," and during the mid-1920s, Governor George Parks stated that wolf numbers were "increasing in spite of the bounty [and] doing much damage to fur and game." Wolves, more specifically, were perceived by Alaskans as having a major, negative impact on Western Alaska reindeer herds, although scientific evidence for this relationship has not been established. Coyotes, which had long been perceived as a threat to game populations, became a bounty target beginning in 1929. Other species, such as the bald eagle, hair seal, and various trout species were thought to threaten Alaska's commerciallyvaluable salmon industry, so the territorial legislature slapped bounties on these species in 1917, 1927, and 1931, respectively.54

The fact that Mount McKinley National Park, established in early 1917, was under National Park Service jurisdiction provided little protection for wolves, coyotes, and other non-game animals. Although the so-called "Lane letter" of May 1918 stated that "the national parks must be maintained in absolutely unimpaired form for the use of future generations," it gave no specific direction on animal management save hunting and sheep grazing (both of which would not be permitted) and cattle grazing (which was prohibited only at Yellowstone).55 But because NPS managers such as Stephen Mather and Horace Albright recognized "the public appeal of visible wildlife" (according to historian Timothy Rawson), they likewise decided that "predators did not receive protection in national parks." Despite Director Mather's admonition that "it is contrary to the policy of the Service to exterminate any species native to a park area," wolves during the 1920s were eliminated from many of the major western parks including Crater Lake, Grand Canyon, Mount Rainier, Rocky Mountain, Sequoia, and Yosemite, and they were effectively eliminated at Glacier and Yellowstone.56

The Bureau of Biological Survey played a key role in these eradication efforts, several of which were instigated to protect livestock and hunting ranges in adjacent areas. But at Yellowstone and Grand Canyon, and perhaps elsewhere, predator control backfired. At Yellowstone, managers had to contend with an overabundance of elk, antelope and bison; huge elk dieoffs resulted, and the agency eventually chose to ship excess animals to nearby areas and to institute a feeding program. At Grand Canyon and in the surrounding national forest, the overabundance of Kaibab deer forced officials to learn "the greatest lesson of their lives" in animal mismanagement; a massive dieoff was followed by extended public hand-wringing on how to proceed and a controversial government-sanctioned deer hunt.57

As noted above, Mount McKinley National Park was established as a game refuge, but as in other western parks, that status provided no protection for predators. And proposals to reduce the number of predators were not long in coming. During the summer and fall of 1922, Superintendent Karstens made the first such suggestion; noting that "porcupine are very thick throughout the park and ... are chewing the bark off large numbers of trees and thereby killing them," he recommended exterminating them. In 1926 and again in 1927, Karstens complained that porcupines had "ruined acres of spruce trees," and after a particularly ugly encounter with the park dogs, he vowed that "porcupine have now been declared outlaws and 'open season' exists on them." But park staff, acting on orders from Washington, killed none of these animals.58

Beginning in September 1925, wolves—which had been "extremely scarce" in the park prior to that time—began to appear in greater numbers. Karstens, upon hearing reports about wolves in the park, immediately contacted his superiors and broached the idea of killing "some of them." Wolves were not the only worrisome animals that year; two coyotes were also spotted, causing Karstens to comment, "It is hoped that these animals do not get a hold on this country." He further noted that

it is to be feared that eventually those present in the hills will breed and will become a menace to travelers. A strict watch will be kept and the killing of both coyotes and wolves will be kept in abeyance until such a time as they become dangerous – then a drastic action will be taken by all concerned.⁵⁹



Winter patrols by dog team were regularly conducted in the park by rangers to observe wildlife activities, resource conditions and any indication of illegal hunting activities. This patrol was traveling on the East Fork of the Toklat River in 1929. DENA 3880, Denali National Park and **Preserve Museum Collection**

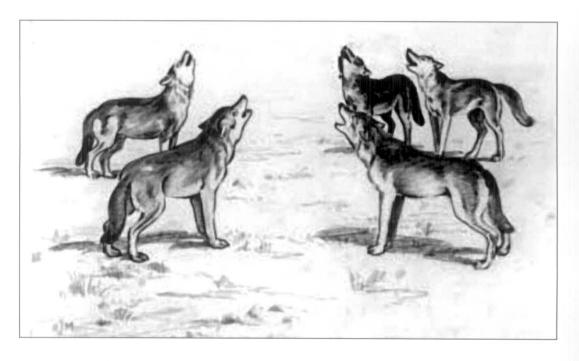
These animals continued to spread, and in 1928 a concerned Karstens noted that "since 1927 wolves are becoming alarmingly plentiful and causing considerable havoc among our game, also the covote is multiplying fast." At the head of the Savage River, where the concessioner had a small camp for "Big Game Drive" patrons, he remarked that wolves were "actually driving the game out ... If something is not done to curb the wolf, our game is going to suffer tremendously." Managers during the late 1920s expressed some worries about the destructive impacts of lynx and wolverines.60 Most of their concern, however, was directed toward wolves. The Bureau of Biological Survey, in 1927, helped organize a multi-agency effort to kill Alaska wolves. The following year the agency's head, Paul Redington, visited the park, after which he wrote a follow-up report stating that wolves had scattered the Dall sheep population to the point that it was "more and more difficult for tourists to observe them." He then asked the NPS to contribute \$5,000 to aid in territorial wolf control efforts. Acting Director Arthur Demaray, the person to whom Redington's report was directed, had no philosophical qualms with the report, but he offered the BBS no funds, probably because wolf depredations did not constitute a crisis. A similar BBS request, sent in 1929, elicited the same negative response. Despite the NPS's reluctance, the BBS hired a wolf trapper and four assistants, who plied their craft during 1929 and 1930. But perhaps because of Demaray's lack of enthusiasm for the project, none of the trappers set foot within Mount McKinley National Park during either of these years.61

Redington wrote to NPS officials again in March 1932. Stating that "wolves and other animals" were "destroying the beneficial wild life of the Park," he again offered the BBS's assistance in the matter. By this time, ten or more wolves had been killed in the park: some by concessions employees, others by NPS staff.62 Inasmuch as the park's sheep population was in the midst of its second destructive winter in four years—winters in which many sheep deaths were blamed on wolves-local NPS staff would no doubt have welcomed the BBS's assistance.63 But new currents of thinking were making themselves heard by this time. In 1916, Joseph Grinnell had published a then-daring paper in which he declared that "predaceous animals should be left unmolested and allowed to retain their primitive relation to the rest of the fauna." By 1924, several prominent members of the American Society of Mammalogists were also going on record about the scientific value of predators, and the organization passed a resolution condemning the indiscriminate poisoning of predators. Gradually, NPS officials began to listen to the scientists; the agency banned steel traps in 1928 and poisons in 1930, and in May 1931 an agencywide policy—signed by Director Horace Albright—stated that "predatory animals are to be considered an

integral part of the wild life protected within national parks and no widespread campaigns of destruction are to be countenanced."⁶⁴

Albright's policy statement, however, did not necessarily translate into specific park policy (historian Richard Sellars notes that it "reflected pressure from outside the Service"), and as late as 1929 Albright had written that wolves were "rapidly increasing in northern Alaska ... and overrunning Mt. McKinley Park," a state of affairs that diminished the health of "species of animals desirable for public observation and enjoyment."65 In July 1931—just two months after the predator policy was issued—Albright arrived at the park and learned that the wolves were not threatening the park's sheep population. Despite that assessment, he backed Supt. Liek's dictum of having park rangers kill wolves on sight; in his annual report, however, Liek diplomatically noted that rangers were "watching this situation carefully and control measures will be taken as necessary." The NPS, as before, did not invite BBS personnel into the park for wolf control purposes.66

McKinley-specific information in these reports were primarily limited to Dixon's observations from 1926, but based on Dixon's new findings in 1932, he wrote a new volume (published in 1938) devoted solely to Mount McKinley's fauna. Much of what Dixon gathered in 1932 was a general description of park animals and habitat.68 But given the wildlife losses that the park had incurred during the winter of 1931-32, Dixon—who was often accompanied by park ranger David Kaye-spent "much time studying conditions among the wild animals with the view of determining the cause for our great losses in sheep," and more particularly whether "this loss was caused by the predatory animals or the deep snows." Dixon, during the late 1920s, had spoken out against the agency's wolf control policies, and in addition, he stated that "there are probably no wolves today in the National Parks of the United States outside of Alaska. The loss is lamentable and there is little likelihood that it can be remedied." Even so, he apparently had little interest in overturning current rules at Mount McKinley. The pragmatic Dixon noted that the wolf's importance was "thoroughly appreciated by the



Adolph Murie, in The Wolves of Mount McKinley, noted that wolves howled in a group before departing from the den for hunting. His brother, Olaus, produced this sketch to illustrate the behavior. Olaus Murie, Harpers Ferry Center/NPS

On the heels of Albright's visit—and perhaps as a result of the director's concerns—Joseph Dixon returned to the park in 1932 and spent two and a half months on a wildlife survey. Dixon, as noted above, had visited the park in 1926 with George Wright. In 1928, Wright had convinced NPS leaders that a survey should be undertaken of fauna in all of the country's national parks. Soon afterward, Wright hired Dixon for the massive project, and fieldwork had begun in 1930. The findings of their work first appeared in publications dated 1933 to 1935; Mount

NPS, even though the necessity of some control ... was admitted on the basis that the mountain sheep of the park were in need of relief." And as Superintendent Liek noted in June 1932 during Dixon's visit to the park, "Mr. Dixon has suggested that the rangers make a little more effort to kill off some of the wolves and coyotes."

The big sheep die-off that took place during the winter of 1931-32, and the rising tenor of predator-based debate that loomed as a result, brought about an increasingly narrow focus that agency



April 1929 was a very hard month for sheep as a result of heavy snows and few places blown clear of snow. Sheep ranged onto the flats and many starved. Near Igloo Creek rangers on patrol picked up five exhausted, starving sheep and took them to park headquarters for rehabilitation, shown here in June 1929. Peggy Talerio Collection

staff paid to sheep, caribou, and wolves at the expense of other animal species. In March 1930, rangers had taken an informal census of nine animal species; beginning with the most common, they tabulated the number of caribou, sheep, ptarmigan, foxes, moose, wolves, porcupines, wolverines, and coyotes. In late 1931, however, they counted only four species (sheep, moose, wolves, and foxes, although it was also noted that "ptarmigan are returning to the park in great numbers").70 After the winter's sheep disaster, agency staff continued to make an annual census, and in 1934 the NPS teamed with the Alaska Game Commission to conduct the park's first aerial wildlife census. Most counts after 1931 were limited to sheep, wolf, and caribou populations, although efforts in both 1936 and 1938 resulted in tallies for five of the park's most prominent mammal species.71

NPS Assistant Director Harold Bryant, who was in charge of the agency's wildlife policies, made it known in March 1932 that he wanted the agency's new (1931) predator policy carried out at Mount McKinley National Park. This meant a cessation of all wolf control efforts. He and Albright carried on a spirited correspondence over the issue, which ceased only when Albright stepped down as the NPS chief in August 1933 and was replaced by Arno Cammerer. Throughout this period, rangers and other government personnel continued to hunt down wolves: at least 2 in 1932, 9 in 1933, and 3 in 1934. Altogether, 24 park wolves were reportedly killed between 1929 and 1934.72

On February 25, 1935, Cammerer—apparently acceding to ideas that Bryant and others in the scientific community had long been advocating—issued a new park-specific predator policy.

"Effective this date," he noted, "the killing of wolves within the park area is prohibited."73 Cammerer's ruling put agency policy at the park squarely against the anti-predator attitudes which prevailed in Alaska, an attitude that, on an official level, had been expressed two years earlier in a legislative memorial that requested "that the Federal Government take steps to control the breeding and propagation of predatory animals" in the park. And on an unofficial level, territorial attitudes toward wolves were encapsulated by a photo caption in the first (January 1935) issue of the Alaska Sportsman: "A dead wolf is a good wolf."74 Park staff, moreover, was as dead-set against Cammerer's policy as other Alaskans. Supt. Liek, in 1935, had just participated in the first in a series of annual animal censuses; these consistently showed that at least 15,000 caribou and 3,000 sheep inhabited the park, as opposed to a wolf population of less than 80. Despite those disproportionate numbers, however, both Liek and his rangers made no attempt to hide their antipathy toward wolves; they made drastic reports that the park was "infested" with wolves, which were becoming "a menace to the sheep." They dutifully refrained from any wolf harvesting, however.75

Toward the end of 1936, the pendulum of the Park Service's policy toward wolves at the park swayed back toward its earlier (pre-1935) position. In June of that year, Assistant Director Arthur Demaray arrived at the park as part of a month-long Alaska sojourn. That visit, however, exposed him to the depth of local opinion on the wolf-control issue, so in late August, after he returned to Washington, he issued a new policy that gave rangers permission—for research purposes—to "kill a moderate number" of wolves.⁷⁶

Given that dictum, Liek assigned specific rangers in both 1937 and 1938 to undertake "predatory animal control" tasks. Rangers killed a total of fourteen wolves after the ban was lifted: one in 1936, three in 1937, and ten in 1938.77

Wolf Management: the Role of Science, Congress, and Advocacy Groups

The NPS, during this time, was torn in its attitudes toward predators. The agency, following its 1931 policy statement, prohibited coyote control at Yellowstone at about the same time that it stopped wolf control at Mount McKinley. But in response to those decisions, it was attacked by a host of advocacy groups: cattlemen's associations, sportsman's groups, the Camp Fire Club, and others. Also weighing in on the issue was former director Horace Albright, who wrote impassioned letters to Cammerer questioning the agency's policies toward coyotes and wolves. The NPS director, in response, sought help from the scientific community. In the spring of 1937, Adolph Murie—who was once again with the U.S. Bureau of Biological Survey-initiated a study of Yellowstone's coyotes. Murie's research concluded that because coyotes had a "negligible" effect on the park's elk populations, the park's flora and fauna should be subjected to "minimal disturbance," and more specifically that coyote control was "not advisable under present conditions." Cammerer backed Murie and resisted further control efforts because, as he noted, the coyote was a "natural and desirable component of the primitive biotic picture."78

As early as 1936, Murie had expressed an interest in returning to Alaska and conducting a similar study on the Mount McKinley National Park wolf population. Funding, however, was a problem, and by January 1939 Cammerer had written to the Camp Fire Club and asked if it would be willing to fund a year-long research project. The Club turned him down, so soon afterward, agency officials recognized the need to "solve its own wildlife problems and thus avoid pressure for control measures by other agencies." After first considering Joseph Dixon for the job (who opted out for medical reasons), they asked Murie to undertake "a study of predators and their relation to other [park] wildlife" as soon as he completed his work at Yellowstone. He eagerly accepted and left Jackson, Wyoming, for Alaska in March 1939. He sailed north with a contingent of Civilian Conservation Corps workers that were bound for the park, and by April 17 he was comfortably sequestered at the park's Sanctuary River ranger cabin.79

Murie, who was officially on loan between the NPS's Region II and Region IV (these were later



known as the Rocky Mountain Region and the Western Region, respectively), had been appointed to the park only for a seven-month assignment, so he wasted no time beginning his work, which specifically involved locating and analyzing sheep skulls. By the end of June, park officials were able to report "very satisfactory progress in his study ... he states that indications point to a favorable report to support the NPS policy of protecting all species of native animals. However, it is too early to make commitments."80 Murie got a significant boost shortly after he arrived, because Supt. Liek-whose tenure went back to the late 1920s and whose support of predators ranged from lukewarm to hostile—was replaced by Frank Been, a forestry-school graduate and former Sequoia National Park naturalist. In late July, an approving Murie wrote that "Been's attitude toward the [predator] problem is in accord" with his own. Been asked Murie to remain at the park until late that fall, and he asked his superiors in Washington to fund the biologist for "several years of observations" because of "the agitation of the people toward wolves and because the conclusions here will be a guide for solving problems in other parks of the territory." When he left the park that fall, he was uncertain whether he would return. He soon learned, however, that thanks to the support of both Cammerer and officials in the BBS's reorganized Wildlife Division, there were now new principles

Wildlife Biologist Adolph Murie began his investigations of predatorprey relationships in Mt. McKinley National Park in April 1939, based at the Sanctuary River ranger cabin. DENA 28-11, Denali National Park and Preserve Museum Collection

of park wildlife management. These stated that "every species shall be left to carry on its struggle for existence unaided," and predators would not be killed unless a prey species was threatened with extermination.⁸¹

Murie's primary research interest was establishing a cause for the park sheep mortality and to ascertain a causal link, if any, between sheep mortality and predators. Murie, as a result of that research, quickly dismissed most predators (such



During his early work Adolph Murie, left, along with Ranger John Rumohr, were photographed here by Harold Herning on the Muldrow Glacier during their extensive hiking field surveys. Beatrice Herning Collection NPS officials, after a winter of stalling, finally agreed in early April 1940 to send Murie back to the park for further research; he and his family quickly headed west to Seattle, and by April 28 they were "already established at a cabin on the East Fork of the Toklat River." He soon joined Frank Glaser, a BBS "predator hunter," and park ranger Harold Herning on a census of wolves and wolf dens in the park. In May, Glaser located three dens containing wolf pups, and by the end of the month, six park wolves had been killed "for specimens and for control."82 Glaser finished his inventory in July and left the park, and in October he issued a report on his work. Ranger Herning, however, issued a separate report during the same month, and as Been candidly noted, "The divergence of interpretation of the two men is interesting." Murie, meanwhile, spent most of the summer observing (and occasionally filming) wolves and wolf behavior, interviewing longtime trappers and hunters, collecting sheep skulls, and analyzing wolf scat. Murie and his family (who adopted a week-old wolf puppy, which they named Wags) retreated to park headquarters that fall, but resumed work at the East Fork cabin the following May. By August 1941 his work was complete, and the family left the park.83

as coyotes, lynx, bears, wolverines, or golden eagles) as being responsible for significant sheep losses. Far more significant contributors were environmental stressors such as snowpack and disease. Wolves, he freely admitted, were "the chief factor limiting the sheep population" in the park, but they did so by harvesting the old, the young, and the sick. But wolves, as a species, were no threat to the overall health of the park's sheep population. Murie, working out of his Jackson home, completed his manuscript in early 1942, but given the country's abrupt entrance into World War II, Murie's research remained in draft form until 1944, when the Government Printing Office published it as The Wolves of Mount McKinley. Included with the text were a number of Olaus Murie's sketches.84

Throughout this period, opposition to the Park Service's *laissez faire* wildlife philosophy remained strong, and particularly so in Alaska. Numerous articles, both in sportsman's magazines and Alaska newspapers, chanted that the park was a "breeding ground" for wolves and coyotes, while overlooking the fact that the park also bred caribou, sheep, and other game animals. According to Murie, "the wolf controversy is in the nature of a religion with many and



Frank Glaser, a U. S. Biological Survey predator control agent, worked in the park with wildlife biologist Adolph Murie and park ranger Harold Herning to conduct a census of wolves and wolf dens in 1940. Glaser worked with Olaus Murie on the caribou capture project in 1922 and 1923, and later was a trapper on the lower Savage River, north of the park boundary, for more than 10 years. Beatrice Herning Collection

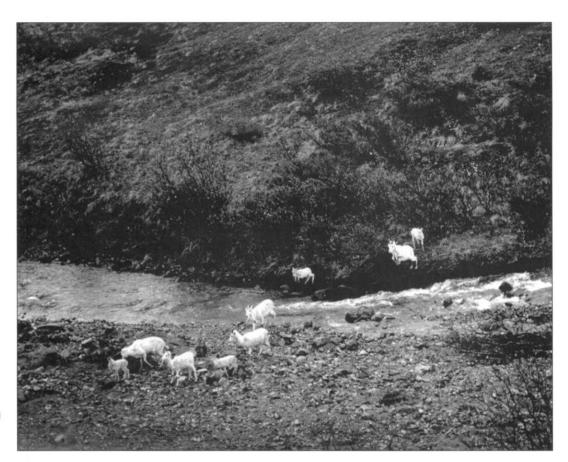
therefore can not be won by logic or fact." But Been, Murie, and others did what they could. They spoke to business, civic, and sportsman's groups in Fairbanks, made a presentation at an Alaska Game Commission meeting, greeted VIPs during their park visits, assigned rangers to accompany bus tours and give natural-science talks, showed Murie's wildlife films, and carried on correspondence with those who published anti-wolf articles. By doing so they won many converts, but due to the sheer scale of those with opposing viewpoints, both men recognized the folly in trying to either implement or retain an absolute ban on wolf control.85 Been, therefore, made it known that rangers still shot wolves from time to time; and as a result, wolves did not enjoy complete protection at the park. Rangers, in fact, killed one wolf in 1941 and another in 1944; more wolves would doubtless have been killed if the ranger ranks during the war had not been so depleted (see Chapter 5).86

During World War II, Alaskans became even more antithetical toward wolves than they had previously, a condition brought on by a loss of long-term hunters to the war effort, a flood of new (and untutored) hunters from the United States, the decimation of the Western Alaska reindeer herds, and poor Interior game harvests. Looking for a way to vent their frustration, the territorial legislature in mid-March 1945 passed a joint memorial blaming the Park Service for Alaska's wildlife woes. The memori-

al stated that "wolves and coyotes have already caused reindeer to decrease from about 641,000 to 90,000 since 1932;" the chief culprit for the crash, furthermore, was the NPS, which was "breeding these destructive creatures in great refuges." The memorial, which was in some ways similar to what had been passed in 1933 and 1935, asked Congress to remove all restrictions to wolf hunting in parks and to fund an aerial hunting program.⁸⁷

Grant Pearson, who had been Mount McKinley's acting superintendent since Been's departure in early 1943, was called on to rebut the legislature's charges. His superiors told him to cease all wolf-control efforts because of the lack of staff; Pearson, however, had a traditional attitude toward wolves, and being a longtime local resident, his best defense was to suggest that out-of-state interests were responsible for the agency's wolf policy.

Other Interior Department officials, who were well aware of the virulence of local opinion on the issue, continued to recommend that NPS regulations pertaining to wolves should be interpreted less strictly at Mount McKinley than in stateside parks. An Indian Service biologist stated that Alaskans were "in virtual mutiny against" NPS policies, Murie stated that "Alaskans would howl more than the wolves" if a ban were laid down, and NPS Regional Director Owen Tomlinson stated that an annual harvest



In addition to his wolf studies, Adolph Murie also studied Dall sheep behavior. He photographed this band of ewes with lambs crossing a small stream in Mt. McKinley National Park. Adolph Murie, Harpers Ferry Center

of three to five wolves would be sufficient to quiet Alaskan concerns without diminishing the park's wolf population. Pearson himself, who had been the focus of so much criticism, warned his superiors that "nothing short of extreme measures will regain the good will and confidence of Alaskans." Otherwise, Congressional action was sure to follow.⁸⁸

Washington-based NPS officials, well aware of the growing fervor against the park's wolf control policy, asked Murie—who was then working for the U.S. Fish and Wildlife Service in Arizona-to return to Alaska and conduct a brief sheep inventory. He stayed in the park from mid-August to mid-September 1945. During his quick reconnaissance, he concluded that the park's sheep population had drastically declined, to the point that their continued existence could be in jeopardy. He therefore recommended—perhaps for entirely political reasons—that rangers should kill from ten to fifteen wolves, with continued control until the sheep population regained its former strength. NPS Director Newton Drury accepted Murie's recommendation "without question," and a news release explaining the new park policy was released on October 31. Three months later, the agency issued a second release, stating that it had authorized "an experienced trapper under the direction of the superintendent" to trap 15 park wolves.89

But the Camp Fire Club, whose roots at the park extended back to the pre-World War I days, was not mollified by the Park Service's action. Led by Belmore Browne, who had made three attempts to climb Mount McKinley, all prior to the park's establishment, the club called the agency's philosophy a "fallacious doctrine" and Murie's book "An Eulogy to the Wolf." Browne, furthermore, had played a key role in establishing the park, and vowed that the park's creators never intended to protect wolves as part of the park's "game refuge" concept. Soon afterward, Camp Fire Club advocates opted for a Congressional resolution of the matter, and on December 14, Rep. Homer Angell (R-Ore.) introduced a bill calling for the "rigid control of wolves and other predatory animals" in the park "to the end that said [game] refuge be made safe, and so maintained, for the Dall sheep, caribou, and other wildlife native to the area." Angell submitted a slightly revised bill the following February, and in March 1946, Wallace White (R-Maine) introduced a similar bill in the Senate.90

The House's Interior Committee on Public Lands held two hearings on Angell's revised bill, on April 3 and May 22. The first hearing, hastily arranged, was dominated by Camp Fire Club representatives, and the only speaker with an opposing viewpoint was Devereux Butcher from the National Parks Association. At the second hearing, Director Drury was able to refute a number

of points made by previous speakers, and after the meeting concluded, the committee tabled the bill for the year because its members concluded that, in most cases, agencies (which possessed the expertise) rather than Congress (which didn't) should be free to decide agency-specific wildlife management issues.⁹¹

With the looming specter of Congressional interference now removed, rangers at Mount McKinley National Park were now free to follow Drury's October 1945 dictum and conduct small-scale wolf harvesting. Pearson begged off at first, citing budgetary woes, but in February 1946 the Service hired John A. Colvin, an "experienced wolf hunter." Colvin, working out of the Sanctuary cabin and armed with both traps and a rifle, began searching for wolves. He had scant success, however, and on April 2 he left the park after concluding that there were not sufficient wolves in the Park to warrant the expense of hunting them." 92

During the summer of 1946, however, caribou migrated back into the park, and with them came wolves. Rangers, following Drury's policy, harvested five wolves between July and October. Murie, hoping to lend some science to the continuing debate, stayed at the park during August and September and concluded that the park still contained only about five hundred sheep, and the wolf population was only about fifteen. Despite those low numbers, Murie recommended a continuation of the agency's wolf-control program. But zealots in the Camp Fire Club, who wanted to preserve the park's sheep at all costs, tried once again to change the agency's policy through legislation. In March 1947, both Senator White and Rep. Arthur Miller (R-Nebr.) introduced bills that largely repeated those that had been seen and debated between December 1945 and May 1946. But this time around, the Camp Fire Club found few allies, and neither bill received a hearing.93

The agency, meanwhile, continued to monitor the park's wolf and sheep populations, primarily through the efforts of Dr. Murie—now an NPS employee—who stayed at the park for most of 1947 and many succeeding years as well. Park staff, during this period, continued their wolf control campaign, and in 1948 they harvested seven wolves. Been, hoping to quell negative publicity about the agency's policy, displayed four of these wolves—all of them killed in February—to a group of labor delegates convened at the park hotel.⁹⁴ And in August 1948 agency staff, wolf-control advocates, and defenders of the agency's policies gathered at the park and engaged in a vigorous, drawn-out debate. The

idea, fostered by NPS Director Newton Drury, brought together Belmore Browne of the Camp Fire Club, who had last visited central Alaska in 1912; Harold Anthony, who was a member of both the Boone and Crockett Club and the NPS Advisory Board; Ralph Friedman, a New York businessman and big-game hunter; NPS biologist Adolph Murie; and park superintendent Frank Been. The men spent ten days together walking, hiking, riding up and down the park road, and conversing. Just a few hours before the three visitors were to depart, Been produced a joint statement that he hoped all would be able to sign. After several hours of debate, all five "reluctantly" signed a final draft stating, among other provisions, that the agency's wolf control program would continue, at least for the short term; that the NPS policies were not to blame for the reduced sheep population; that predator control legislation was a dangerous precedent; that the continuing services of a biologist were needed to monitor park wildlife; and that the public needed to be further educated about the park's predator situation. All three visitors submitted lengthy evaluations of their sojourn at the park, and based on those reports, Drury-primarily as a public relations gesture—decided in January 1949 to remove any limits on the number of park wolves to be harvested.95

Shortly after Drury's decision, Been was transferred to a position in Oregon and was replaced by Grant Pearson, who had been working in the park for most of the last twenty-three years. Pearson, a longtime predator-control advocate, wanted all of his rangers involved in the wolf reduction effort, but a more cautious Murie (in the words of historian Tim Rawson) wanted "to be selective about which wolves would be sacrificed to the politics of wildlife management." During the winter of 1949-50, one park wolf was killed, and another (near Igloo Creek) was seen dragging a trap. But in later years, park staff targeted only a small part of the park for wolf harvesting. Wolves in the hotel and headquarters areas, specifically, could be harvested, but no efforts were made to cull wolves in the Toklat drainage or elsewhere in the park's interior.96 To that end, traps were placed near the park dump (which was located just east of the McKinley Park airstrip) during the winter months, and as a result, most of the eleven wolves that were caught and killed between 1949 and 1952 fell victim to snares at the park dump.97

Events both inside and outside of the park's boundaries conspired to eliminate the need, and reduce the political pressure, for further wolf control. The park's caribou herds typically wintered on grounds north of the park, and the



In order to comply with the mandated wolf control program, park rangers placed snares at the park dump in 1951 and caught three young wolves, one of which is pictured above with ranger Bill Nancarrow. The pelts from these wolves were utilized for interpretation at the park museum. DENA 18-11, Denali National Park and Preserve Museum Collection

wolves, who followed them, often fell victim to poison bait that was scattered about by U.S. Fish and Wildlife Service agents. In addition, the park's sheep numbers began to rebound, from a 1945-46 population of 500 to an estimated 1,200 in 1951. And on a political level, Camp Fire Club activist Marshall McLean died in 1952, and Belmore Browne followed soon afterward.98

The circumstances that ended the agency's wolf control efforts at the park were brought about by a request from a husband-and-wife film crew. Herb and Lois Crisler, who worked for Walt Disney Productions, wanted to make a film showing the home life of a wolf family, so they asked the NPS for permission to film a wolf den in the park. Pearson was cool to the idea and claimed that there had been no known wolf dens in the park since 1946. But the new NPS director, Conrad Wirth, overruled Pearson. He stated, in a February 1953 memo, that because the park's sheep were no longer threatened, the couple was free to proceed with their film project; and to assist the filmmakers, he enacted a temporary ban on wolf control. Later that year, Murie tallied at least 1,500 sheep and an increasing number of caribou migrating into the park. So given the expanding numbers of park game animals, Wirth in March 1954 decided that wolf control in the

park would "be suspended immediately and until change in the relationship of the wolf and its prey species makes resumption of control advisable." Few public protests followed Wirth's decision, the park's game populations remained healthy in the years following the decision, and since that time, agitation for wolf control has not been resurrected as a serious threat to NPS policy.

The Growing Popularity of Fishing

Congress, when it established Mount McKinley National Park, drew boundaries that encompassed the high peaks of the Alaska Range and the rich wildlife habitat immediately to the north. Despite language in the park bill calling for the "preservation of animals, birds, and fish," little if any information has surfaced in hearings or correspondence to suggest that fish populations within the proposed park boundary were either well known or highly valued. Karstens, a long-time resident of interior Alaska, was doubtless well aware of the area's primary fish species, but his knowledge of the fish habitat patterns within the park boundaries was probably fairly limited.

Karstens began a staff presence in 1921, and by 1923 he had gained both rangers and a concessioner. These individuals, plus the trappers and prospectors who had inhabited the area

since the earliest years of the twentieth century, collectively had considerable knowledge of the best local fishing holes. But George Wright and Joseph Dixon, during their 1926 biological study, made no mention of the park's fish populations. To provide additional knowledge, Karstens in August 1927 headed out on a month-long patrol, one object of which was to locate the park's "good fishing streams or lakes and the species of fish to be caught." That trip took him westward to Copper Mountain, and later down the Clearwater Creek drainage. He returned from that trip stating that the park offered grayling and Dolly Varden trout. Grayling, measuring from 5 to 14 inches long, were plentiful ("as many as 200 have been seen in a small hole") and were found in most of the clear water streams, while some streams carried Dolly Varden, the larger sizes of this species invariably being found near the headwaters. One of the richest grayling pools was located at the northern end of Savage River Canyon, and to ease access to the site a trail was constructed there from the park road in 1928.100

This group of Civilian Conservation Corps enrollees were quite successful at fishing in Wonder Lake. John Ehly Collection, Denali National Park and Preserve

One of the park's first information circulars, published in 1929, stated that there were no park-specific fishing regulations; here, as in most other NPS units, only hook-and-line fishing was allowed, and fish could not be harvested "for merchandise or profit." It offered the following descriptive information:

The grayling, a very hardy species of the trout family ... are sporty and playful, and of an average weight of 1 to 2 pounds. Large schools of these fish may be seen swimming in the waters of Savage River, at the north entrance to Savage Canyon. The angler may also try his luck in Riley Creek, about a mile from the [1922] park entrance, where grayling abound. There are also trout in the park streams which are classified locally as Dolly Varden. Their weight is in the neighborhood of I pound. Outside the park ... at Wonder Lake ... there is a variety of trout, some weighing as much as 35 pounds.101

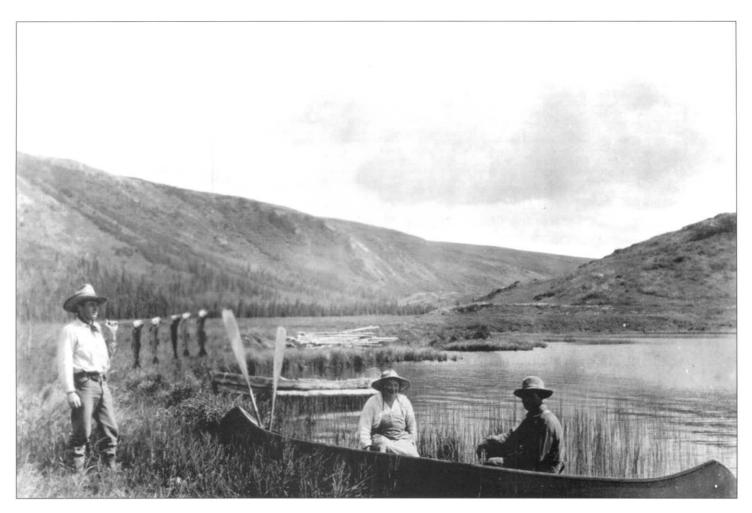
Wonder Lake, as noted in Chapter 4, had been eyed as a potential hotel site as early as 1930, and the agency's interest in constructing such a facility had resulted in the Congressional passage of a bill (in May 1932) that brought Wonder Lake into the park. Interior Department official Ernest W. Sawyer, at the time, was fully aware that clouds in the area often obscured tourists' views of Mount McKinley. He noted that the visitors' time, therefore, "could be well spent fishing as well as



enjoying the scenery nearby."102 Grant Pearson and other rangers, at the time, were aware of the lake's fish resources, because they had doubtless eaten trout caught by homesteaders John and Paula Anderson, who lived on the lake's northern edge. They likewise knew about the grayling in nearby Moose Creek from Kantishna miners such as Johnny Busia.¹⁰³

The federal government showed an increased interest in the lake beginning in the mid-1930s. The NPS, in 1935, decided to build a hotel just south of the lake, and the following year the Alaska Road Commission extended the park road to the proposed hotel site. The government's decision, in 1937, to finance and build a hotel near the railroad depot temporarily put any plans for a Wonder Lake Hotel on the back burner. But many Alaskans and some in Congress still supported the idea. During a park tour in August 1939, Rep. Schuyler Bland (D-Va.), a member of the Subcommittee on Alaskan Fisheries, suggested that the lake be thoroughly studied "with the idea of stocking it for future use when a lodge for tourists is constructed" nearby. A Bureau of Fisheries official, who accompanied the congressional party, quickly seconded Bland's motion, and a month later, a Bureau specialist spent several days at the lake and reported that the lake was "amply supplied with fish food and could support many more lake trout than it now contains."104

The completion of the McKinley Park Hotel, in June 1939, made the area surrounding the train depot a more significant visitor node than it had



John and Paula Anderson lived on the north shore of Wonder Lake and enjoyed fishing there, as evidenced by this photograph of them in their canoe. Jay Hathaway Collection

previously been (when accommodations had been limited to the Morino roadhouse, which had been sparingly used after the mid-1920s). In 1940, an ARC crew built a 1.5-mile trail to Horseshoe Lake, and by July of that year, park superintendent Frank Been was noting that the new trail was "proving very popular with tourists," in part "due to the excellent fishing in Horseshoe Lake.105

Horseshoe Lake, as it turned out, was just one of many Alaskan lakes and streams that had recently become popular with recreational fishermen. In order to regulate this increasingly important activity in a territory that had traditionally been dominated by commercial fishing interests, the Bureau of Fisheries had issued its first territorial sport fishing regulations in March 1936; these initial rules pertained to trout only (although not to Dolly Varden trout), and they imposed a daily catch limit of 40 fish and a possession limit of 80 fish.106 Four years later, slightly tighter rules were implemented; in the new rules, "game fish" included grayling as well as four types of trout: rainbow, steelhead, eastern brook and cutthroat. The regulations offered a number of general prohibitions against the wanton waste or destruction of game fish, the commercial harvest of game fish,

and the use of nets, traps, set lines, and explosives to catch fish.107

The 1940 regulations also provided the first limitations on the number and size of fish that could legally be harvested. The bag limits were certainly generous by modern standards, and they were also generous when compared with general NPS regulations, which called for a ten-fish limit.108 The 1940 Bureau of Fisheries regulations stated that

> No one shall take in any one day ... more than a combined total of 25 game fish or more than 25 pounds and I game fish of all species, and no person shall have in his possession at any one time more than a combined total of 50 game fish of all species or more than 50 pounds and 1 game fish of all species.109

Been and other park officials were apparently unaware of the issuance of these regulations until April 1941. Shortly afterward, officials announced that they would issue agency-specific regulations, identical to the Alaska regulations as they pertained to fishing bag limits, in order to give park personnel enforcement powers.110

The 1941 NPS regulations skirted the issue of fish stocking. This practice was both common and uncontroversial during this period, both in Alaska and in many other NPS units.111 However, news reports that announced the 1941 regulations stated that NPS officials were "requesting that no fish be planted in the lakes, ponds and streams of Mount McKinley National Park. The NPS is responsible for that [stocking] work and desires to have park officers do it in order that records and observations can be made."112 This announcement was a logical extension of a 1936 agency policy "to prohibit the wider distribution of exotic species of fish within the national parks and monuments," and to that end, that policy had stated that "no introductions of exotic species of fish shall be made in national park or monument waters now containing only native species."113 The 1941 announcement, therefore, may have been aimed at federal or territorial fisheries officials, who may have wanted to stock Horseshoe Lake or other park waters with species (such as rainbow trout) that were native to Alaska but not to park waters. It may also have been Washington's response to park superintendent Frank Been, who in July 1940 had told his superiors that sport fishing's growing popularity "may make restocking of [Horseshoe] lake necessary. Some desirable species such as rainbow trout might be introduced."114

The spring 1943 conversion of the McKinley Park Hotel from a civilian hostelry to a military recreation camp meant that the park was suddenly hosting hundreds of young men each week, many of whom loved to fish. NPS officials saw the influx as an opportunity, and that May, Pearson noted that "grayling are now being caught in all clear streams [and] Dolly Varden trout are being caught in Riley Creek." By June, fishing pressure had increased to the point that Pearson told Army officials that anglers should take no more than 10 grayling per day and, at Wonder Lake, take a maximum of 2-3 lake trout per day.¹¹⁵

Soon afterward, the U.S. Fish and Wildlife Service (which was the successor to the Bureau of Fisheries) temporarily interfered with park fishing. On July 1, 1943, Congress had passed a revised version of the Alaska Game Law; that law, which applied to sport fishing as well, defined "game fishes" to include Dolly Varden trout as well as grayling and other trout species. 116 Based on that law, the Fish and Wildlife Service issued regulations on July 16 that—perhaps inadvertently—closed all Alaska NPS units to game fishing. 117 On the heels of that regulation, NPS Director Drury sent a July 20 radiogram to Pearson telling him that all park waters were immediately closed to fishing. Pearson, responding

with his own radiogram, pleaded that the action "imposes drastic hardship on Army recreation program" because "fishing is most popular soldiers sport" and asked to "have this regulation rescinded." Perhaps as a consequence, this and other irregularities in the July 16 regulations were addressed in a revised series of regulations, and fishing in the park was legally able to resume on August 24.118

The summer of 1943 also witnessed the first discussions about fishing licenses. Prior to 1943, no fishing licenses had ever been issued in the territory. This changed on July 1, 1943, when Congress passed the revised Alaska Game Law, which required residents, nonresidents, and aliens (non-U.S. residents) to obtain fishing licenses. 119 Pearson, in response, argued that because "neither the Territory of Alaska nor the Alaska Game Commission has ever aided in the stocking of the streams within the park, ... it is difficult for us to understand why they should exact a license fee from our visiting soldiers." He therefore suspended the license requirement for the time being. Washington officials, perhaps in deference to the many soldiers who were staying at the park for much-needed rest and recreation, backed Pearson.¹²⁰ Thereafter, Alaska Game Commission regulations consistently required all adult residents who wanted to fish in territorial waters to have a territorial fishing license. NPS regulations, however, overruled those regulations. At no time since 1943 have park anglers been required to possess an Alaska fishing license.121

Pearson's June 1943 ruling regarding bag limits on grayling and lake trout apparently held sway only so long as military personnel were the primary park users, and in late August a new territorial regulation was put in place, stricter than the rules set forth in 1940-41. The new limit was "20 fishes singly or in the aggregate, but not to exceed 15 pounds and I fish daily[;] two daily bag limits in possession."122 These regulations remained until 1947, when Frank Been—who had been in the Army since 1943—returned as the park superintendent. Given a rising number of visitors, and the expectation of even more visitors in the future, Been recommended that park regulations regarding bag limits match those for most parks located outside of Alaska. As a result, the Interior Department issued an August 1947 regulation that eliminated the special regulations that had been in force since May 1941. For the next several years, there were no special regulations regarding fishing in the park; instead, park fishing would be guided by general NPS regulations, which stated that "the number of fish that may be taken in any one day from the various lakes and streams shall be limited to 10 fish" and that fishermen could possess only two days' catch at any one time.123

As the number of visitors increased, park managers had specific concerns about the park's fish populations. In July 1950, for example, they closed Horseshoe Lake for the remainder of the season because it had been "excessively over fished preventing any stabilization and reproduction to take place." As early as 1948, Been had stated that due to an increase in private-car traffic and the consequent increase in fishing pressure, a "reduced limit" of lake trout at Wonder Lake "might be required." In 1952, Pearson agreed. He recommended the issuance of a new regulation that limited the Wonder Lake fish catch to just two fish per person per day. The regulation, which was implemented in late May 1952-just two years before the agency established its Wonder Lake Campground—stated that "the limit of catch of lake trout (mackinaw) per person per day shall be two fish, including those hooked and released." The regulation also made two revisions to general park fishing rules. First, instead of mandating a simple ten-fish limit, it stated that a single day's catch "shall be 10 fish but not to exceed 10 pounds and one fish." Second, it restricted the total possession limit from a two-day catch to a single-day catch.124 This regulation has continued, unchanged, to the present day.125

Meanwhile, rangers during the postwar period were paying increased attention to the park's fish resources. They noted newly-discovered species such as ling cod (burbot) in both Horseshoe Lake and Wonder Lake. 126 They conducted periodic patrols that specifically sought out fishermen, and in August 1958 rangers issued what may have been their first fish-related citation, to a Bureau of Public Roads construction worker for possessing "an overlimit of fish." 127 In the mid-1960s, Wonder Lake-based rangers conducted surveys of fishing success in that area. Science also entered the equation. In 1964, rangers were sufficiently worried about unknown fish parasites that they asked a University of Alaska professor for assistance (these turned out to be leeches that "probably do little damage to the fish"), and in 1966 preliminary work began on a dietary study of Wonder Lake's lake trout (which concluded that their primary food was insect larvae, supplemented by mollusks).128

Postwar Natural Resource Issues

As noted above, biologist Adolph Murie had first spent time at the park in 1922 and 1923 with his brother Olaus. He had returned to Mount McKinley in early 1939 as a Bureau of Biological Survey employee, and he remained there as either a seasonal or permanent employee until August 1941. During that 2½-year period, he had become thoroughly familiar with the park as he compiled information on its wolves, sheep, caribou

and other large animals. Given a resurging and continuing interest in the role of wolves and other predators in the park's ecosystem, Murie returned to the park in the late summer of 1945. In 1946, he became an NPS employee, and although his job assignments were directed out of the regional office in San Francisco, he lived and worked at the park seasonally through 1947, then permanently from April 1948 through October 1950. During this period, he complemented his wolf-sheep duties by writing about other wildlife such as the tundra vole, grizzly bear, and wolverine.¹²⁹

Given the quality of his work, his superiors clamored for his participation in other projects, so in 1950 he headed off to Grand Teton National Park to study the local elk herd, and the following year he took part in Alaska Recreation Survey work in southeastern Alaska, Prince William Sound, and the Kenai Peninsula. He was also encouraged to take part in a study about cougars in Olympic National Park, but as Linda Franklin has noted, he "wanted to continue his McKinley studies instead, and that passion made him unenthusiastic about new opportunities." Murie, who served as the park's only biologist throughout this period, declared an interest in preparing "a new faunal series publication on the mammals" of the park." Part of his work during the summer of 1951 related to the still-active wolf-sheep issue, but the summers of 1953, 1955, and 1956 involved research into park birds and to other park mammals, such as the lynx. That research involved the compilation of an increasing amount of film footage as well as written documentation, and-perhaps because of his brother's leadership position with the Wilderness Society—he also began to advocate for the protection of the park's wilderness and wildlife. Projects outside of Alaska also commanded his attention, most notably as they pertained to the Grand Teton elk population.130

Park staff during the postwar period benefited greatly from Murie's tutelage, and several rangers have noted that their interactions with the biologist were both educational and inspirational.131 Park leaders, moreover, lobbied for a staff naturalist. In response to Washington's demands, beginning in 1947, for a monthly wildlife report, Supt. Frank Been complained that "there are four rangers who do all the jobs of protection, maintenance, construction, and public contact that is divided among specialized staffs in other national parks. ... There should...be a naturalist staff for public relations as this is an important function of park purposes and serves to indoctrinate visitors with the appreciation for wildlife values."132 Finally, in June 1950, the superintendent designated University of Alaska botany student Elton

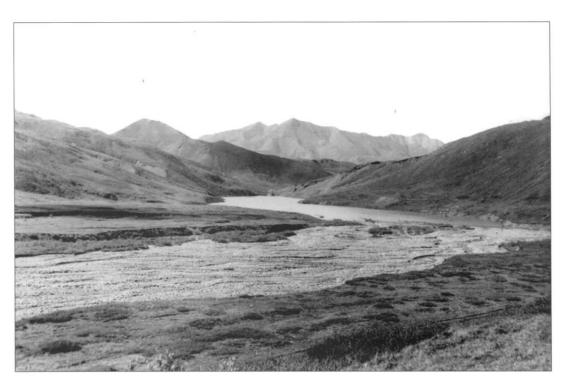


Adolph Murie is shown here in 1940 photographing wolf tracks on the East Fork of the Toklat River. Harpers Ferry Center #10582, NPS

S. Thayer as a seasonal naturalist; he was the first since the early 1940s. A year later, as noted in Chapter 11, William Nancarrow (who had been a park ranger since 1948) was appointed as the park's first permanent naturalist. After that date, a full-time naturalist was a fixture on the park staff, and beginning in 1954, at least one seasonal naturalist joined the ranks each summer. Much of the naturalist's workload was educational or interpretive in scope, but he also helped coordinate the efforts of non-NPS researchers, and he conducted such research as time allowed.

The park's role in science was spotlighted by two high-level conferences held during the early 1950s. In May 1949, an Alaska geologist an-

nounced that "a group of scientists based in and out of Juneau have been discussing the possibility of forming an organization of scientists in the Territory." Given that level of interest, the first Alaska Science Conference, which was organized under the auspices of the National Academy of Sciences, was held in Washington, D.C. in November 1950.134 The following year, officials decided to hold the conference in Alaska, and they chose the McKinley Park Hotel as its venue. This conference, which was organized by the American Association for the Advancement of Science, was held for the five-day period following Labor Day, and in the words of Superintendent Pearson, "the greatest group of prominent natural history scientists to ever gather together in Alaska



This view of Bergh Lake was taken from near the park road, looking north down Stony Creek. The lake was named for Knute Bergh, a recently-deceased U.S. Coast and Geodetic Survey contract pilot. DENA 3533, Denali National Park and Preserve Museum Collection

attended this conference." The meeting proved so successful that it was repeated at the hotel in late September 1952. These two meetings attracted not only scientists but also federal agency heads, planners, and territorial politicians. The park superintendent played the role of host and local organizer, and he also conducted trips out the park road. Most of the papers at the conference were not thematically related to specific NPS concerns, but park employees contributed in various ways. In 1951, "many of the scientists went on field trips which were directed by Park Biologist Adolph Murie," while in 1952, "lectures and papers were presented on land with regard to moose and caribou" and employees attended "a most interesting forum discussion upon predation and predator control."135 After 1952, the Alaska Science Conference typically met in either Anchorage, Fairbanks, or Juneau, and not at the park; NPS staff, however, were able to attend a number of these meetings.136

Issues related to the park's landforms first became prominent during this period. Given the extraordinary efforts of U.S. Geological Survey personnel, who had published reports about the park area beginning in 1907, park staff could easily access a substantial amount of information about the park's geology, glaciology, and hydrology. The But given the easy visibility and the dynamism of many glaciers that spilled out from the high Alaska Range, staff beginning in 1932 sought specific glacial data by "taking pictures and measurements of Muldrow, Peters, Hanna and Herron Glaciers." Rangers established large stone monuments near the faces of many park glaciers and, for the remainder of the

decade, returned to make comparative photos and measurements.¹³⁹ By 1939, however, rangers had glumly concluded that "established monuments were frequently washed away," which underscored the need "for definitely permanent reference points." A new method, instituted in 1940, appeared more promising, but World War II forced a cessation of these studies. 40 Bradford Washburn, the mountaineer, stated that cosmic ray research, not glaciological research, helped justify the need for the 1947 "White Tower" expedition. (See Chapter 13.) Once on the mountain, however, he also gathered data about the Muldrow Glacier's movements. Washburn was helpful in other ways, too; the meticulous photographs he took of the area—aerial footage beginning in 1936, ground photography beginning with his 1942 expedition—served as valuable baseline data for future research.141

Heightened awareness of the park's landforms did not take place until July 1953, when an earthquake, combined with heavy rainstorms, caused a major landslide in Stony Creek Canyon, between Highway Pass and Stony Hill overlook. The slide, approximately one mile north of the park road, dammed the creek bed with a 200foot berm, and within a month, a mile-long lake had formed—complete with a thriving grayling population—that reached to within 150 feet of the park road. But erosion soon began to wear down the huge earthen dam, and during the next three years the newly-designated "Bergh Lake" diminished to about half a mile in length. On July 2, 1986, thirty-three years after the lake was formed, rain-swollen waters dug through the berm and the lake disappeared.142

Mission 66: The Promise and the Reality

In February 1956, NPS Director Conrad Wirth announced the beginning of Mission 66, a program that promised a new infusion of cash to an agency that had been suffering from a postwar crush of visitation. The prospectus that park staff developed in response to Wirth's announcement (see Chapter 7) recognized that the park's two primary purposes (based on the 1917 legislation) were Mount McKinley (and the scenery that surrounded it) and the area's biological diversity. In addition, "highest ranking among the intangible values of the park is its distinct wilderness feel." Based on those values, staff noted that "of utmost importance ... is the continuation of scientific research within the area." The two most prominent "scientific research" needs, however, were pragmatic to the extreme; one project called for a study to eliminate "glaciering" or road icing along the park road, while another called for "biological and geological research" near the western end of the park road "to obtain factual material for the opposition or support" of new road building activities. The prospectus also declared the need for "continual investigations of the ecological relationships of the flora and fauna ... in the maintenance of indigenous forms." Specific biological projects included "studies of range carrying capacities in regard to large herbivores; altitudinal distribution of plants and animals; and physiological studies of special adaptations for arctic existence," while landform-related studies included additional "research concerning the formation of the Alaska Range and its complex lithology" and a renewal of studies of the "origin, growth, and movement" of the park's glaciers, as well as new work on the "location and effect

of permafrost" in the park.⁴³ The prospectus envisioned almost \$7 million in new spending at the park; virtually all of it, however, would go toward improved roads, buildings, and utilities. Resource protection, by contrast, would get short shrift; the plan's only nod in this area was the eventual addition of new naturalists (primarily seasonal) to the park staff. No funds would be directed toward scientific research.⁴⁴

The final park Mission 66 plan, released in May 1957, was even less sensitive to resource protection that the previous year's prospectus. While the final plan acknowledged that "it is the combination of superlative mountain scenery and wildlife along with the palpable wilderness aspect of McKinley Park that make it deserving of preservation for this and future generations of Americans," it also stated that "McKinley is still in its embryonic development stages" and that "the McKinley Mission 66 program was formulated to correct present day deficiencies and to prepare for the increase in visitation and its attendant problems due to the opening of the park to automobile travel." It stated, somewhat ironically, that "the key to the development theme of the park is the maintenance of wilderness integrity," but like the preceding prospectus, it recommended money solely for construction and improvements: for roads and trails (\$7.2 million), structures and utilities (\$2.5 million), and campgrounds and signs (\$0.1 million).145

Adolph Murie, who had been at the park when the Mission 66 team visited the park in July 1956 (though absent during the winter of 1955-56, when the initial prospectus was prepared), was



Adolph Murie (left) spent more of his summers based at the Igloo Cabin than any other location in the park. He is pictured here with Joe Hankins in front of the Igloo Cabin. Wallace A. Cole Collection



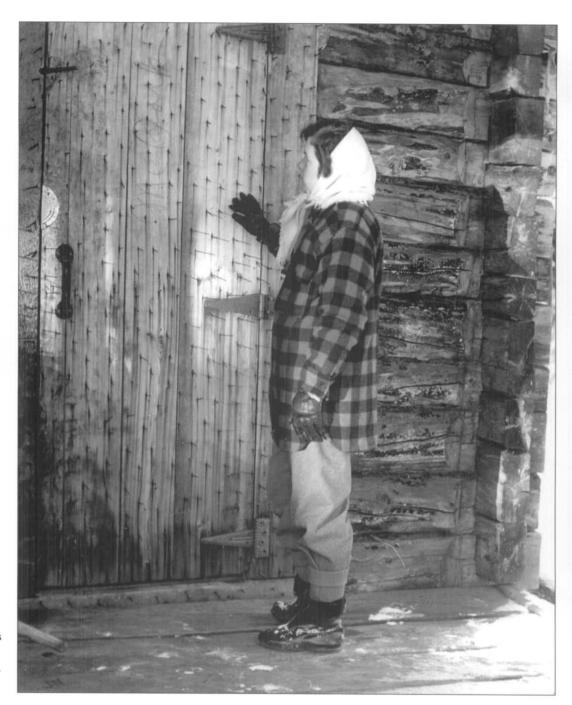
In the summer of 1957 graduate student Jack Gross was hired by the U. S. Fish and Wildlife Service to conduct a ground-based sheep survey in Mt. McKinley National Park, accompanied by horse packer Willy Miller. The purpose of the survey was to obtain more accurate sex and age information to augment aerial surveys. DENA 18-58, Denali National Park and Preserve Museum Collection

unhappy with the park's Mission 66 plans. He felt that "because McKinley is considered by many to be our outstanding wildlife park, outstanding even by Alaska standards, it behooves us to give the most careful consideration to all intrusions before approving any of them." He, unlike others at the park, sought to preserve the park's "wilderness character." He made no specific recommendations for additional natural resource studies; he did, however, urge the agency to expand the park boundary northward in the Wonder Lake area, both to eliminate a threat to hunting but also on aesthetic grounds, "to preserve a proper setting at Wonder Lake from which to enjoy this sublime region." ¹⁴⁶

Meanwhile, park wildlife research in the wake of the Mission 66 program continued much as it had before. The wolf-sheep controversy by now had receded as a public issue, but in recognition of the continuing importance of the park's most prominent wildlife species, most attention continued to be directed toward the park's sheep and caribou populations. The Fish and Wildlife

Service, in cooperation with the NPS, conducted aerial and ground sheep surveys at least once per year from 1957 to 1959; these were supplemented by additional aerial surveys in 1961 and 1962.147 Murie, who had spent the summers of 1955 and 1956 at the park, returned in May 1959 and remained there each summer for more than a decade—well past his December 1964 retirement. 148 He spent most of those summers, home-based at the Igloo Creek cabin, studying the park's caribou, sheep, and other wildlife, although in 1961 he helped conduct a wildlife study of the Windy Creek and Foggy Pass areas. This latter work was apparently a response to various plans to excavate limestone along the West Fork of Windy Creek and to build a cement plant nearby (see Chapter 14). In addition, he completed books on the park's mammals and birds in 1962 and 1963, respectively.149

The park attracted several outside researchers during this period. Ted Lachelt, a University of Alaska graduate student, spent several months in the field on a wolverine study, while Richard



To keep bears from breaking into unattended cabins, "bear shutters" with nails driven through the wood were fashioned to fit over cabin doors and windows. These were removed when the cabin was occupied and replaced when the cabin was vacated. Charles Ott Photo, Denali National Park and Preserve

Coleman, from the Bureau of Public Health, obtained a permit to collect invertebrates. 150 In June 1957, several scientists arrived at the park to study the park's bird and insect populations, and throughout the summer of 1957, scientists from both the U.S. Geological Survey and the American Geographical Society descended on Muldrow Glacier to investigate its recent surge.151 Les Viereck, from the University of Colorado, spent the summers of 1956 and 1958 collecting mosses, lichens, and vascular plants near Mount Eielson, and Eleanor Viereck (Les's wife) studied the park's small mammal populations.152 The summer of 1959 brought two scientists to the park to make further studies of Muldrow Glacier. Napier Shelton, from Duke University, spent the summer of 1961 studying the plant distribution in the Toklat

and Teklanika river basins, and Ray Davis, a University of Idaho professor, arrived in 1962 to study the Claytonia, or spring beauty.¹⁵³ In 1963, British ecologist Frank Fraser Darling spent a week with Murie and participated in his field research, and in 1964 two researchers visited: Wallace Grange from Wisconsin, who spent much of the summer studying the park's snowshoe hare population, and Eric Hultén, the well-known Swedish botanist, who undertook a plant collecting project with Adolph and Louise Murie's assistance.¹⁵⁴

Postwar Bear Management: Avoidance, Protection, and Study

Bears, which had first emerged as a management problem during the late 1920s (see above), continued to cause problems through the mid-1940s,



Ranger John Rumohr is shown here releasing a grizzly bear from the park's mobile culvert bear trap. Denali National Park and Preserve Museum Collection

primarily by damaging the park's patrol cabins. In response, rangers spent considerable time and effort to prevent new depredations, and during the spring of 1946 the park reported that these cabins all sported nails on the door casing, on the door itself, and on the window shutters. Damage continued, however, particularly near the western end of the park road. In June 1946, rangers reported that a bear had entered the McKinley Bar patrol cabin and "literally wrecked the place," and the following year one of the Camp Eielson buildings was "mauled by a grizzly." 155 The most vulnerable building, however, was the Wonder Lake Ranger Station. A "marauding she-bear" damaged the facility on numerous occasions during the summer of 1948, causing so much fear among park staff that repairs did not commence until November, "to be sure that the bear was hibernating."156 The year 1949 brought more grim news. Park staff noted that it was "the worst in the history of the park for bear trouble. They have broken into most of our patrol cabins along the park road." Two years later, a 650pound grizzly bear damaged the mess hall and bunkhouse at the long-abandoned Savage River concessions camp.157 On two occasions, bears attacked people; in July 1949, a U.S. Geological Survey employee working in the Ewe Creek vicinity "got claw marks on his back," and in June 1951 an ARC worker was "badly bitten and mauled" by a Toklat grizzly.158

Employees, during this period, initially used a three-pronged approach toward bears. First,

both NPS and Alaska Road Commission staff tried to minimize the amount of food kept at their cabins and camps. If bears lingered nearby, they fired various warning shots, hoping to frighten them away; or, in the case of the Horseshoe Lake Trail, rangers simply closed it for several weeks. If warning measures failed, however, personnel were authorized to shoot habituated bears. Thus several incidents of avoidance behavior were noted in the park records, both at the ARC's Toklat road camp and the Wonder Lake Ranger Station.159 But in July 1946 a Camp Eielson bear "became mean, even chasing people on three different occasions," and it "finally had to be destroyed to prevent a serious accident." And in September 1948, a maimed bear was killed by rangers about two miles north of the railroad depot "to avoid possibility of going berserk from pain and rage and becoming a hazard to people."160

In June 1949, grizzlies were seen prowling around both the park headquarters and the Toklat road camp. So to minimize future incidents, park mechanic John E. Williams devised a live bear trap from a section of road culvert and mounted it on a two-wheeled trailer. By August the trap was complete, and two troublesome Toklat-area bears were trapped, then released elsewhere in the park. Additional relocations, or attempted relocations, took place at least once per year for several years thereafter. Bears, attracted by food odors, also emerged as a problem during the summer of 1951 at the park's garbage dump, just east of the McKinley Park airstrip.

Given the growing number of bear problems at the park—to the patrol cabins, at the ARC camps, and the hotel-area garbage dump-NPS Regional Director Lawrence Merriam in September 1951 requested "the recommendations of Dr. Murie on the bear management problem." Murie's cabin recommendations did not include spiked doors and shutters (he declared them "atrocious in appearance and inefficient"); instead, he suggested "proper bear-exclusion shutters ... and a bear-proof door," and the need for all stored food to be kept in a nearby cache, not in the cabin itself. At the ARC camps, the solution to the garbage problem lay in insisting that personnel empty their garbage cans each evening and that "some kind of fencing" was needed to surround the refuse piles. And at the hotel-area garbage dump, the best long-term solution "would be a bear-proof fence that does not depend upon electricity." Pending the construction of such a fence, however, he suggested that "all the bears ... be live-trapped and hauled westward to the Wonder Lake or Red Top mine areas."163

Murie's recommendations had mixed results. Attacks on cabins continued; in 1952, for example, a bear inflicted "minor depredations" on the Sanctuary patrol cabin. A year later, a ranger on an extended dogsled trip reported that "many of the outlying cabins were in poor condition due to lack of maintenance and depredation from bear," and in July 1955 a grizzly "ripped up" a house trailer located at Wonder Lake.164 Attacks at the ARC camps, however, ceased. Park personnel continued to trap and relocate bears for the next several years; the practice, however, was apparently abandoned after the summer of 1954.165 At the dump, 1951 was the first year in what turned out to be a five-year management effort, the process of which is detailed in Chapter 6.

Bear problems of another sort brought about changes in the Sable Pass area. Soon after the park road was completed to this area, park officials recognized the area's outstanding wildlife; in a June 1930 report, Supt. Liek noted that "the game in this section is very tame and countless thousands of sheep and caribou can be seen on the hill sides."166 In 1940, however, Supt. Been noted a new phenomenon: "A large Toklat grizzly bear and her cub ranged through the Sable Pass section all summer." And after that date, most Sable Pass visitors noted the area's bears to the exclusion of other large animals. By the early 1950s, grizzlies in the area "were reported almost daily by tourists and park personnel alike."167 This predictability, however, brought problems, because in July 1955, the park noted that "several persistent photographers" had been leaving the road right-of-way and "photographing the bears

in that area day after day and have caused the animals to move away from the roadside." As a result, "visitors have had difficulty in locating the bears on the feeding grounds." Aware that the impending completion of the Denali Highway would bring thousands of privatelyowned automobiles to the area, park and regional officials initiated "a discussion on restricting the Sable Pass to roadside photography to permit the Toklat grizzly to graze undisturbed." The following February, park officials recommended a special regulation to that effect, which stated that between mileposts 37 and 42 (roughly for two miles on either side of Sable Pass) and one mile on either side of the park road, the agency would prohibit entry to "photographers and hikers." 168 This prohibition was later broadened to include "other Park visitors except as may be specifically authorized by the Superintendent," and it became effective on June 20, 1956, when it was published in the Federal Register. The regulation evidently worked; in 1959, Adolph Murie noted that "increased traffic over the park road [since the Denali Highway opened in August 1957] has not as yet forced the grizzly out of its habitat in the vicinity of Sable Pass."169 The regulation remained until October 1983, when it was eliminated in favor of a more broadly-applicable language in the "closures and public limits" section of the agency's general regulations. The area today remains closed to general public entry.170

Soon after the Sable Pass protection zone was implemented, new studies began about the park's grizzlies. Dr. Frederick Dean, a University of Alaska wildlife biology professor and the ad hoc head of the Alaska Cooperative Wildlife Research Unit, received an Arctic Institute of North America grant for a long-term study of the Toklat grizzly.¹⁷¹ He arrived at the park in June 1957, settled into the patrol cabin at Igloo, and spent the remainder of the summer observing the bears' distribution, abundance, and habits. He returned the following June, and each summer until 1960 saw him making either extended visits to the park or, on occasion, making aerial bear censuses.¹⁷² But his inability to obtain funding for additional field work prematurely curtailed his study, and few tangible recommendations from his work were forwarded to park staff.¹⁷³

The park, meanwhile, continued to manage its bear population much as it had during the late 1940s and early 1950s. Bears had not been much of a management problem for several years after 1955, but during the summer of 1960 at least five grizzly bears, attracted by food, caused trouble up and down the park road. (One bear, according to an NPS report, "took exception to [an NPS] house trailer near the Wonder Lake Ranger



The 5-mile-long Sable Pass closure, in effect continuously since 1956, provides a limited area along the park road where visitors have an opportunity to view wildlife undisturbed, in a natural setting. NPS Interp. Collection, #4103, Denali National Park and Preserve

Station and demolished the unit.") In each case, the bears were live-trapped and "removed to a remote area in the park." Rangers, in 1961, did much the same to at least six more bears. He between then and 1966, only two nuisance bears were recorded: in October 1963, a "rogue black bear" tried to break into several buildings and cars at headquarters and had to be destroyed, and in September 1965 an immature grizzly was

live-trapped and removed after tearing the siding from a staff residence.¹⁷⁵ And one bear-caused injury was reported; in 1961, graduate student Napier Shelton, who was working on the south slope of Igloo Mountain, received puncture wounds to his thigh and a deep laceration to his leg. The injury put him in a Fairbanks hospital for several days, but three weeks later he was back in the field.¹⁷⁶

The park, by necessity, also managed other animals during the postwar period. Beavers, along the railroad corridor, were an occasional problem during the late 1940s, and in both 1961 and 1962 several were live-trapped and removed (to upper Hines Creek) because their damming activities were threatening the railroad crossing near Milepost 345.177 Porcupines, as noted above, had been reported as nuisances since the 1920s, and the damage they created caused additional concern during the early 1950s. Managers did not intervene during these periods. But when a porcupine, in the spring of 1965, attacked several birch trees in the headquarters area, staff reacted by placing "protective coverings" on the trees and removing the offending animal.¹⁷⁸ Smaller animals could be intrusive, too; foxes, along with arctic weasels, often lingered near residences and occasionally ransacked food sources. But after the mid-1950s, a greater emphasis on secure food storage brought a stop to this activity.179

Park Wildlife Planning and Its Ramifications, 1961-1971

Stewart Udall, who was President Kennedy's Interior Secretary, was well aware of a growing national awareness of ecology and the interrelatedness of nature. In 1962, therefore, he appointed a committee headed by A. Starker Leopold, and he asked the committee to write a report that applied these themes to wildlife management. The result of that effort, released in March 1963, had an immediate impact on NPS resource management. The committee's findings, known informally as the Leopold Report, called on NPS managers to "recognize the enormous complexity of ecologic communities and the diversity of management procedures required to preserve them." The report further stated that scientific research should "form the basis for all management programs" and that a broad range of agency decision making should fall under the "full jurisdiction of biologically trained personnel." To adopt these recommendations, as the report noted, would be a "major policy change" for a bureau that—particularly since the commencement of the Mission 66 program—had primarily focused on accommodating tourism.180

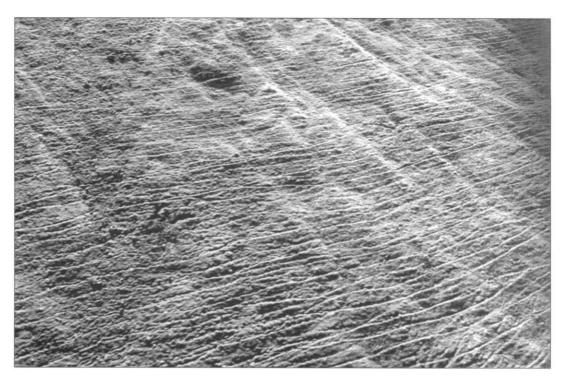
In reaction to the Leopold Report and a similar National Academy of Sciences report, issued later that year, NPS Director George Hartzog established a new Division of Natural Sciences. Before long, staff from the various park units was asked to compile planning documents that laid out their particular research requirements. At Mount McKinley, Superintendent Oscar Dick spearheaded the compilation of the park's first natural resource planning document. The so-called *Long-Range Wildlife and Range Manage-*

ment Plan was drafted in early 1964. After revisions from regional and Washington officials, the final plan was approved in March 1965. The plan, which covered the 1964-1969 period, stated that "wildlife management in the immediate future will accentuate the protection of Park wildlife from human influence" and that "ecological research will be encouraged."

To carry out those objectives, the park staff urged a three-pronged approach. First, the aerial Dall sheep censuses which had been carried out since the 1940s needed to be continued "in order to provide long term information on population fluctuations of this important species." Second, in order to eliminate the "quasi-domestication of bear, fox, and other animals," staff needed "consistent enforcement of existing regulations, prompt action in removing addicted (rogue) animals, [and] adequate sanitation in campgrounds, residential areas, dumps, etc." Finally, staff recognized that "increased use of the lands near the Park may eventually have a marked deleterious effect on the natural balance" of caribou and Dall sheep, so they recommended "boundary extensions as well as firm agreements with agencies administering adjacent lands."182

During the five years after the plan was approved, some aspects of the plan were implemented to a greater degree than others. In part, this mixed record was due to a lack of staff. Adolph Murie, the park's longtime biologist, had retired in December 1964, and although he continued as a summertime resident at the park until 1970, he observed wildlife primarily as an avocation; he also continued his long-running role as an ardent defender of the park's natural values. More specifically, he played a key role in the long-running controversy over the park road (see Chapter 7), and he also served as a consultant to two different master planning studies.¹⁸³ In late 1965 officials selected Richard Prasil, the agency's regional naturalist, to replace Murie as biologist. Prasil, however, did not move to Alaska until June 1966, and he was based in the newly-established Anchorage office, not at the park. Prasil, given the agency's expanding role in the state, juggled a variety of roles.¹⁸⁴ Even so, he completed several wildlife censuses and other brief biological reports between 1967 and 1973.185

Perhaps because of this lack of staff, the park did not continue its aerial sheep counts during the mid-to-late 1960s. This may have been because park staff, aided by the Murie's summertime observations, concluded that the sheep population was relatively healthy. The park continued to have occasional problems with animal "quasi-domestication." These problems led to



This mountainside exhibits wellworn and numerous caribou trails along routes to calving areas on the south side of the Alaska Range in Mt. McKinley National Park. John Dalle-Molle Photo, NPS, Denali National Park and Preserve

the relocations of several problem bears and, on a more tragic note, an August 1967 bear assault on a park employee just west of Toklat Campground. The NPS, during this period, also mulled over the need for a boundary extension in order to preserve the year-round habitat of the park's sheep and caribou populations. As noted in Chapter 7, this idea was initially considered on a modest scale in 1965, while in 1966 and 1968, internally-circulated master plans recommended the acquisition of an increasingly large tract of land north of the park boundary.

In the meantime, scientific studies were advanced by both NPS employees and outside researchers. In the spring of 1967, graduate student Gordon Haber (who had served as a seasonal ranger-naturalist the previous summer) geared up to begin his own study of wolves in the park. That study, which became Haber's master's thesis, was completed in 1968. Also in 1967, NPS biologist Richard Prasil conducted two aerial wolf censuses. The following year, Prasil published additional observations about the park's wolves, caribou, and grizzly bear populations, and he continued to pay attention to the wolf and caribou situation through the early 1970s. The season of t

In 1969, as a follow-up to agency policy that had been set in motion by the Leopold Report, park staff prepared a second, five-year long range wildlife management plan. That report stated that "the goal of McKinley wildlife management should be a continued research approach and a hands-off management policy unless the resource is being changed by human activities." Control efforts would "be directed towards

alleviating or minimizing the effect of man's presence" and included "consistent enforcement of regulations, adequate sanitation in areas of human occupancy, and public educational programs." The only reduction program envisioned, in fact, was "the occasional removal of animals that endanger human life." The "foundation for Park wildlife management" would continue to be based on "accurate documentation of pertinent data by Park personnel" along with "formal projects conducted by scientific specialists." In response to a problem of "wolf poaching from the air," the plan recommended "more intensive aerial patrol of the Park," and it continued its earlier suggestion that the only way to truly protect the park's large mammal populations was "through extensive boundary changes or ... cooperative agreements with federal and state land management agencies."190

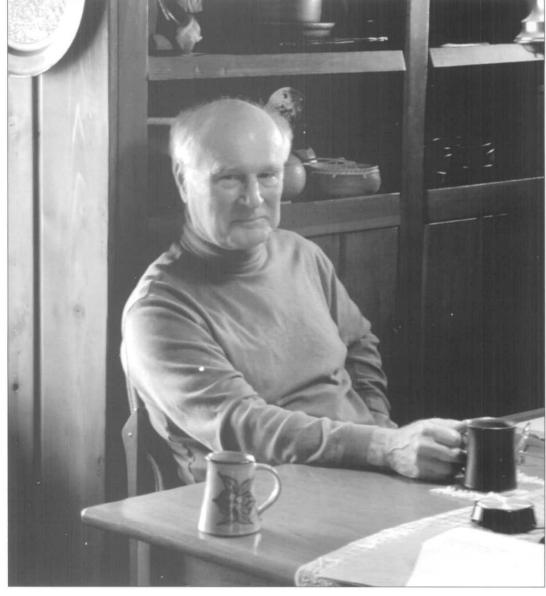
Establishing a Park Resource Management Program, 1972-1980

During the winter of 1971-1972, park visitation patterns were changed dramatically because of a decision, by NPS Director George Hartzog, to rationalize the number of passenger vehicles traveling along most of the park road. (See Chapter 8.) Hartzog, in making his decision, recognized that because of the completion of the new Anchorage-Fairbanks highway, the summer of 1972 would bring a dramatic increase in park visitation. He also knew that park staff had been concerned since the late 1960s about the effect of existing automobile traffic on park wildlife, and as early as 1968, park superintendent George Hall had urged the implementation of some viable alternative to increased passenger car

traffic. Because of Hartzog's decision, the agency instituted a new system of shuttle buses, which complemented the concessioner's long-established tour buses. The new system successfully operated in 1972, although not without problems, and by that fall, many were concerned about the impact of the new transportation system on the park's animal populations and vegetation. The NPS, by this time, had already begun working with the University of Alaska on a new, ad hoc organization called the Alaska Cooperative Park Studies Unit (CPSU). Dr. Fred Dean, the professor who headed the unit, was familiar with the park, and knowing the park's interest in the subject, he asked graduate student Diane Tracy to undertake the project. Tracy spent much of the summers of 1973 and 1974 in the field, often riding park buses, and by late 1975, a progress report of her research findings had been published.191

Tracy's efforts turned out to the first of many CPSU studies about the park's natural resources

that would be undertaken during the 1970s and early 1980s. Unlike the unit's Anthropology and Historic Preservation Program, which was primarily concerned with the resources in proposed park units, the Biology and Resource Management Program focused most of its projects on Mount McKinley National Park and the other three Alaska park units. The relative close distance between Fairbanks and the park, and the relatively high sophistication of Mount McKinley's resource problems in comparison with other park units, attracted many researchers to the park. The CPSU, as a result, sponsored park-based projects related to grizzly bear ecology, human disturbance impacts on wolves, animals' use of the park's dump sites, Dall sheep feeding ecology, moose winter survival rates, moose-wolf habitat interactions, vegetation mapping, vegetation trampling impacts, and similar topics.192 These projects, which were partly or wholly financed by the NPS, were usually framed so as to resolve specific resource-related problems, and they

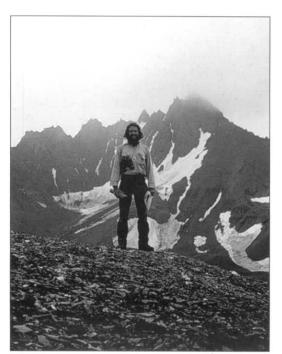


Fred Dean, shown here in 2005, began his long-term grizzly bear research in Mt. McKinley National Park in 1957. He later directed the activities of the Cooperative Park Studies Unit, a cooperative effort between the National Park Service and the University of Alaska, promoting research to answer management questions and provide an understanding of park ecosystems. NPS Photo

benefited not only the agency, but several also became the subject of students' master's theses.¹⁹³

CPSU-affiliated personnel, however, were not the only scientists conducting studies at the park during this period. NPS personnel, either at the park or area-office levels, conducted a number of aerial sheep censuses as well as caribou population and movement studies. Other wildlife studies were conducted by the Alaska Cooperative Wildlife Research Unit, the organization with which Frederick Dean had been affiliated during his 1957-60 grizzly bear studies.¹⁹⁴

The large number of non-NPS researchers that descended on the park demanded the establishment of a staff liaison, so during the summer of 1973—shortly after Diane Tracy, the first CPSU researcher began working on her Mount McKinley study—the agency decided to hire Steve Buskirk, a master's-level biologist who had been a full-time park ranger since May 1972. (Buskirk, upon being selected, was known as a ranger with a resource specialty, but by the end of the year his title had shifted to resource management specialist.) In his new role, he was asked to develop a list of research priorities (this list, forwarded on to CPSU personnel, helped influence the types of research that took place in the park), and he was also told to "develop a plan to deal with the explosive growth in backcountry use."195 This task, during the winter of 1973-1974, led to his compilation of the park's first backcountry management plan (see Chapter 8). Buskirk remained at the park until 1977, and the following August he was succeeded by John Dalle-Molle. Interest in resources was sufficiently great that Dalle-Molle, in April of 1979, hired an assistant, Joe Van Horn.



At the park from 1972 to 1977, Steve Buskirk developed a list of research priorities and created a plan to deal with increasing backcountry use. NPS Interp. Collection, #2845, Denali National Park and Preserve

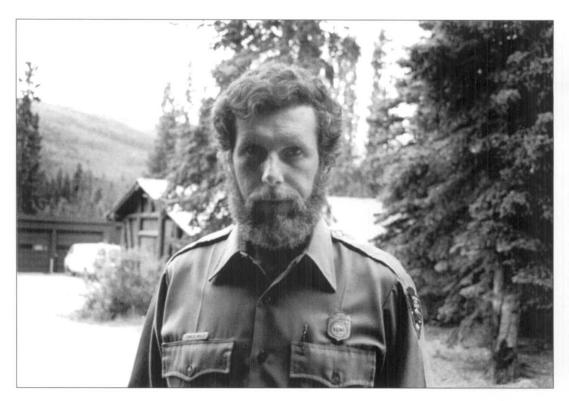


Dalle-Molle continued in his position until he stepped down in the late 1980s; Van Horn continued to work in the park's resources division for almost twenty years.¹⁹⁶

One resource-related problem area that ballooned into importance during the 1970s was bear management. Bear-human encounters, as noted above, had been a nagging problem ever since the 1920s, but in the half-century of park management prior to 1972, so-called "incidents"197 had been few (less than one per year), and there had been just four injuries from bear attacks. But the year 1972 brought a doubling of park visitation from the year before, and visitation in 1980 was more than seven times that of 1971. Given this population explosion, incidents and injuries grew apace. Between 1972 and 1980, inclusively, rangers recorded 138 incidents; this averaged approximately 15 incidents, and several hundred dollars in property damage, each year. In addition, there were nine bear-caused injuries (one per year), several of them serious. Backcountry campers, though numerically small when compared to other park visitors, accounted for well over half of these incidents and injuries.198

In order to manage this increasingly complex problem, the park in 1972 published and distributed a bear warning folder (entitled *Grizzly Bear – Friend or Foe?*), and a year later there was an ongoing program to educate the public to the hazards of bear encounters and how to avoid them. A card for this purpose was distributed to all visitors, and a backcountry use folder that

As a Cooperative Park Studies Unit researcher for 2 years, Ken Whitten studied the habitat relationships and population dynamics of Dall sheep in Mt. McKinley National Park, gathering data for his 1975 Master of Science thesis. Ken Whitten Photo



During his tenure as resource manager, John Dalle-Molle initiated an inventory of park resources, drafted the first resource management plan, and emphasized protection of the park's wilderness character. DENA 9024, Denali National Park and Preserve Museum Collection

explained bear hazards was distributed to all backcountry users.¹⁹⁹ In 1974, the park began requiring backcountry users to obtain access permits, and as part of the permit-distribution process, rangers educated campers about proper behavior toward bears and food storage methods. In 1978, park staff installed bear proof garbage cans at the Riley Creek campground—the first in a process that, within five years, resulted in such cans throughout the park—and that same year, park staff closed backcountry units for the first time due to bear activity. Also, by this time, staff had developed a bear incident reporting form, equipped rangers with immobilizing drugs, and prepared their first bear-human conflict management plan. And in order to standardize the collection of data about bear-human incidents, the park in 1980 instituted the Bear Information Management System, a management tool that had been pioneered at Glacier National Park during the 1970s.200 Park staff, during this period, continued to manage problem bears much the same way they had since Murie, in 1951, had weighed in with his recommendations: 1) by attempting to separate bears from potential human-related food sources, 2) by relocating bears who were associating either people or structures with those food sources, and 3) destroying bears who continued to be problems to people or structures. Between 1972 and 1980, inclusively, 17 bears had to be relocated. Some of these relocations were apparently successful, but at least four park bears had to be destroyed.201

Park staff, during this period, closed an increasing number of backcountry areas in order to

protect specific species. The first known closure decisions were public safety responses to bear activity; in May 1952, for example, staff closed the park's garbage dump to visitors, and three years later, visitors were blocked from using the Horseshoe Lake trail.202 In early 1957, the land on either side of the park road at Sable Pass was permanently closed (as noted above) in order to ensure the continuation of high-quality bear viewing opportunities. Then, in 1973, the park brass accepted biologist Gordon Haber's recommendation to close, for the entire summer, several "prime visitor use areas" totaling 42,456 acres in order to protect wolf dens and denning areas. Closures to protect the park's wolves continue to the present time. 203 In 1976, park staff opted for the first time to close an area surrounding an active gyrfalcon nest, and in 1978 an area was closed in the vicinity of a fox den.204

Resource Planning for the Newly-Expanded Park Unit

As noted in Chapter 8, much of the 1970s was spent in a major administrative and legislative battle over the fate of the so-called Alaska National Interest Lands. Some of the most coveted lands surrounded Mount McKinley National Park, so in December 1978, President Carter signed a proclamation which established 3,890,000-acre Denali National Monument. The proclamation language extolled primarily natural resource values: the protection of various "glaciers on the south face," the "geologically unique Cathedral Spires," "significant habitat for the McKinley caribou herd" and "other scientifically important mammals such as grizzly bear, wolf,



In 1974, bears regularly visited the park garbage dump, located south of the George Parks Highway railroad crossing. Chip Downing Photo, NPS Photo, Denali National Park and Preserve



By 1975 this electric fence prevented bears from obtaining human food at the park garbage dump. Chip Downing Photo, NPS Photo, Denali National Park and Preserve

and wolverine," the Toklat River warm springs with its "unusual run of Chum salmon," and "the entirety of this, the highest peak on the North American continent."²⁰⁵

Given the fact that Carter, on the same day, had established 16 other national monuments (most of which were not adjacent to existing park units), and given the additional fact that neither Congress nor the agency was willing to expend more than a token amount to protect these areas, agency officials were primarily concerned with the protection of areas fairly distant from the Mount McKinley and Denali park units.

But on at least two occasions, NPS personnel were actively deployed to protect park resources. The first was in response to the mid-January 1979 "Great Denali Trespass" (see Chapter 8), while the other was the stationing of four Alaska Task Force rangers who spent ten days at Lake Minchumina (just west of the national monument boundaries) at the beginning of the 1979 hunting season.²⁰⁶

The lands battle of the 1970s culminated with President Carter's signing of the Alaska National Interest Lands Conservation Act in December 1980. That bill called for the expansion of



During the late 1970s, in an effort to quantify backcountry use impacts, park staff initiated studies on the effects of hikers and horses on park vegetation. Joe Van Horn, above, collected data from an experimental trampling plot near park headquarters. NPS Interp. Collection, #2823, Denali National Park and Preserve

Denali National Park and the establishment of a new Denali National Preserve, with most of the newly-designated acreage included in the former Denali National Monument. Congress stated that the park additions and preserve would "be managed largely with natural resource values in mind." Congress asked the NPS, among its goals, "to protect and interpret the entire mountain massif, and additional scenic mountain peaks and formations; and to protect habitat for, and populations of fish and wildlife including, but not limited to, brown/grizzly bears, moose, caribou, Dall sheep, wolves, swans and other waterfowl."²⁰⁷

Resource personnel were in no position to reach out to the new national monument lands during the 1978-1980 period, but after President Carter signed ANILCA into law, Dalle-Molle recognized the need to expand the park's knowledge base, both of longstanding "old park" issues and, in addition, a broad range of natural resource issues in the new park and preserve.

These needs were addressed in the park's first resource management plan, which was issued in draft form in April 1982. The plan, directed by Resource Management Specialist John Dalle-Molle, recommended 14 natural resource projects for completion during the 1983 to 1987 fiscal years, inclusive. Foremost among the park's needs was a bear-human conflict management study, followed by a study of the impact of traffic on the park road to adjacent wildlife populations. Additional project statements called for studies of the decline of the Denali caribou herd, for the monitoring and protection of the park's

wolf population, and for continued large mammal surveys. 208

Less than a year after the completion of the resource management plan, Denver Service Center staff "began in earnest" to work on a Congressionally-designated general management plan (GMP) for the park and preserve. (See Chapter 9). The draft GMP, released in March 1985, stated that the agency was "continuously expanding its resource management program," the intent of which was "to understand the natural forces that shape Denali's environment and to avoid or eliminate activities that significantly interfere with natural processes." Recognizing that there was "a growing concern about the impacts of increasing visitor use," the draft plan spotlighted one resource study—which showed the impact of road traffic on the park's wildlife (see below) and used it to propose a change in overall park access policy. Other natural resource studies that were "currently underway" included annual wildlife surveys, a declining caribou herd study, wolf pack monitoring, two different bear studies, a vegetation trampling study, and studies of both moose and Dall sheep. The context of those studies was presented in additional discussions, particularly as they related to caribou, bears, and wolves.209 After the issuance of the draft plan, the public provided an extensive number of comments, resulting in the issuance of a revised draft (in December 1985) and a final plan (in November 1986). The section pertaining to natural resource management, however, was largely unchanged from language that had been presented in the draft plan.210



This early 1980s "problem" bear was tranquilized and transported from the backcountry to the park road for relocation by aircraft to a remote area. NPS Interp. Collection, #1815, Denali National Park and Preserve

Two studies that began in the early 1980s brought significant changes to how the park was managed. In 1981, regional personnel asked two biologists, Francis (Frank) Singer and Joan Beattie, to make a new study of the impact of road traffic on the park's wildlife populations. As noted above, Diane Tracy had addressed this topic during the 1973-1975 period, but a 50 percent growth in road traffic since 1972 suggested the need for a renewed effort. The Singer-Beattie study, initially released in March 1984, concluded that traffic increases between 1974 and 1981 had not had a significant impact on wildlife populations observed between the park headquarters and Eielson Visitor Center. Increased traffic, however, had caused many moose and bears to avoid using the road corridor. The authors further noted that additional traffic increases—which would perforce shorten the spacing between vehicles—might eventually disrupt the migrations of caribou and sheep herds. They further recognized that wildlife typically exerted more avoidance behavior for private vehicles (whose occupants often stopped, got out, and approached animals) than for buses (whose occupants remained inside). Based on the results of their study, agency officials who were preparing the general management plan recognized that the best way to allow increased park visitation while also reducing human-caused impacts on park wildlife was to reduce private vehicle traffic but allow a modest increase in bus traffic. These changes proved controversial, but they were implemented in the park's final (November 1986) general management plan.211

The other major study focused on how to more effectively manage the park's bear population. As noted above, the boom in park visitation—and more particularly, visitation to the park's backcountry—had resulted in an upsurge in bear incidents, relocations, and deaths, plus with a concomitant growth in bear-caused human injuries and property damage. NPS officials reacted to the problem, as noted above, by educating park visitors, closing backcountry areas as needed, relocating or destroying problem bears, installing bearproof garbage cans, and by fencing and later closing the remaining garbage dump. But as park staff noted, "overall problems did not decline," and problems were particularly acute in the backcountry due to an "inability of campers to secure their food."212

To counter the problem, staff recognized that the "total elimination of unnatural food rewards and management of human use" had to be the first priorities. So the park, during the summer of 1982, began hiring biological technicians to address bear-human conflict management. These seasonals stepped up efforts to get backcountry users to apply bear avoidance techniques, and they visited with park inholders and adjacent landowners, both to teach bear-safe practices and to help design bearproof facilities. Park staff in 1982 decided to stop relocating bears; they noted that the technique was not only ineffective but that it altered the bears' social and genetic integrity. And that same year, staff began testing a portable, bearproof plastic food container. Early models required modifications, but improved



Dall sheep are vulnerable to traffic disturbance and predators in areas where their seasonal migration routes cross the park road. This situation provides visitors on buses with an uncommon viewing opportunity. Brad Ebel Photo

models followed soon afterward, and by 1986, Dalle-Molle reported that "containers have proven very effective in reducing problems and visitor acceptance of them has been very high." In 1987 the news was even more optimistic; the superintendent noted that "for the first time since the early 1970s, no backpackers lost food to bears, and the numbers of incidents were the lowest in 12 years." And because the number of incidents decreased, fewer bear-caused area closures were needed. ²¹³ Given the large numbers of both bears and visitors in Denali, the bear-human interac-

tion problem was by no means solved; substantial progress, however, was being made.

Biological Research, 1986 to Present

The park's general management plan, released in late 1986, stated that the primary document guiding future research at the park would continue to be the resource management plan, which was "reviewed at least once each year and are updated as necessary." Park staff hoping to expand on their knowledge base tried to stimulate as much research as funds allowed.²¹⁴



During the development of bear resistant food containers for backpackers, park staff field tested different container styles. John Dalle-Molle Photo, NPS, Denali National Park and Preserve Park Service personnel, at this time, were fortunate that biologists from other agencies were already well underway with long-term studies of the area's megafauna. Beginning in the mid-1970s, Wayne Heimer (later assisted by Sarah Watson) had been studying the Dall sheep populations of the Alaska interior. Both were biologists working for the Alaska Department of Fish and Game.²¹⁵ In 1980, U.S. Forest Service biologist Vic Van Ballenberghe began studying the area's moose population, both within the park boundary and in areas to the north and east.²¹⁶ The ADF&G efforts continued until the late 1980s; Van Ballenberghe—though now retired—is still an active researcher in the park.²¹⁷

In conjunction with the various long-term megafauna studies, park staff since the 1980s have continued, sometimes in conjunction with state fish and game officials, to take censuses and otherwise monitor the park's wildlife populations. Park records indicate that sheep, wolves, brown and black bears, moose and caribou have been the subject of either ground or aerial monitoring over the years.²²²

For the first time since the 1960s, when Adolph Murie had made pioneering studies, research took place on other park species as well. Beginning in 1984, Phillip Schempf of the U.S. Fish and Wildlife Service, concerned about pesti-



Field experiments with grizzly bears were conducted to test the effectiveness of different types of bear resistant food containers. NPS Interp. Collection, #5445, Denali National Park and Preserve

> The Park Service, as noted above, began its own studies in 1984, when it asked biologist Francis Singer to conduct a three-year study of the declining Denali caribou herd. The importance of these animals was sufficiently great, however, that Layne Adams—who replaced Singer in 1986—is still actively engaged in caribou research at the park.218 In 1986, just a year after major wolf poaching incident at the western end of the park, the agency asked Dr. David Mech, an internationally recognized authority on wolves from Minnesota, to begin a comprehensive wolf research project at the park.219 And in 1991 the agency began funding a new study, headed by Jeff Keay, about the park's grizzly bear population.220 Research into all three of these species continued for more than a decade. Regarding most of the park's megafauna species, continued research and monitoring is an ongoing endeavor.221

cide contamination, began a study of interior Alaska merlins (a species of Holarctic falcon), and in 1987-88 park staff began to inventory and monitor the park's raptors (golden eagles and gyrfalcons).²²³ Both the merlin and raptor studies have continued to the present day, and in 2002, efforts were made to locate the nesting areas of trumpeter swans and other waterfowl.224 Christmas bird counts, first made in the 1960s, have continued to the present day, although Denali Foundation staff, starting in 1992, have taken a leading role in this effort.225 Small mammal research took place in 1996 with a study on voles, with much broader studies being undertaken as part of the park's long-term ecological monitoring program (see below).226 Plant studies, during the 1980s, were primarily related to an analysis of vegetation-trampling impacts and of the Setchell willow, both of which had been first addressed by



Caribou researcher Layne Adams is shown radiocollaring a mature caribou bull, enclosed in a net sling in preparation for weighing. The overall goal of the caribou study is to understand the population dynamics of a naturally-regulated caribou herd. One aspect of the project studies caribou bulls to gain an understanding of their survival patterns and seasonal distribution. Troy Cambier Photo

CPSU researchers during the 1970s.²²⁷ But in 1991, park staff were able to undertake "base line data gathering of vegetation types and densities," and later that decade, in conjunction with the park's long-term ecological monitoring program, "major strides" were made in expanding the park's floristic inventory.²²⁸

Creating an Inventory and Monitoring Network
In order to broaden the agency's biological expertise and sustain the park's ecological integrity, managers recognized the necessity to inventory the park's key resources and then, at regular intervals, to monitor the condition of those resources. In 1991, the agency (at the national



Park biologists John Burch (left) and Tom Meier radio-collared this wolf near the Teklanika River in November 2007. Burch and Meier started the wolf research project in 1986 under the direction of L. David Mech and Layne Adams. Monitoring of the Denali wolf population has been continuous for 21 years and the project is now part of the Central Alaska Inventory & Monitoring Network. Troy Cambier Photo



Researchers document plant species composition and structure as part of Denali's long-term vegetation monitoring program. Monitoring sites are re-visited every seven years to allow detection of trends in the vegetation cover. NPS Photo

level) offered a special initiative, with sufficient funding to provide for an inventory and monitoring program at four parks nationwide. Denali was chosen as one of those parks. Park managers recognized the practical impossibility of obtaining a detailed inventory for an entire six-millionacre park unit, so their application specified three watersheds for their long-term environmental monitoring (LTEM) work; within those watersheds, plans called for geology, soils, air, climate, glaciers, vegetation, wildlife, and human use to be monitored on permanent plots that would be established within each watershed. By January 1992, these three watersheds were increased to five, with initial emphasis placed on the South Fork of Moose Creek, but by June 1992, economy and accessibility dictated that the Rock Creek watershed (which was not one of the five initially selected) would be the primary area of interest. Field work in that watershed commenced in the summer of 1992.229

During the early-to-mid 1990s, when the park's LTEM program was being established and going through its initial development stages, the park was gaining an increasing number of staff with a resources background. Gordon Olson, during this period, became the park's first Chief of Resources (and prior to his arrival, resources staff had been supervised by the chief ranger or management assistant). At various times either Joe Van Horn or Olson incorporated monitoring program leadership into their other responsibilities. Penny Knuckles, in May 1996, became the

program's first full-time coordinator. Other park resource staff that played a key role during this period included Phil Brease, Carol McIntyre, and Pam Sousanes.

Although the various resource management staff had a variety of ongoing projects, the establishment of the LTEM program had the practical effect of concentrating interest geographically in the Rock Creek watershed, and particularly during the program's first three years, most LTEM efforts took place in or near that watershed. In addition, program leaders reached out to a variety of research partners: these included universities (primarily in Fairbanks), federal and state agencies, and privately-funded research groups. And within the NPS, those who helped compile studies for the program included not only full-time staff (both in Anchorage and at the park) but also permanent, seasonal, and volunteer technicians. Sometimes these partners relied on funding supplied by the NPS (and later by the National Biological Survey or the U.S. Geological Survey), but in other cases they supplied funding from their own institutions and worked through cooperative agreements and other partnering arrangements.

As the LTEM program matured, the staff affiliated with the program recognized that a geographical concentration on a single area offered a relatively limited research horizon. This was particularly true for those involved in the studies of glaciers or aquatic invertebrates, neither of

which was well represented in the Rock Creek watershed. During the mid-to-late 1990s, therefore, most research studies broadened their focus and selected monitoring sites that were scattered throughout the park unit.²³⁰

The program, which had received fairly modest funding (\$350,000 or less per year) during the early- to mid-1990s, substantially increased its budget in fiscal year 1998, which allowed a proliferation of new studies. Then, in 1999, the NPS announced a new initiative, called the Natural Resource Challenge, that promised even more funds for the agency's biological programs. The five-year program provided a coordinated, system-wide approach to natural resource management and provided first-year base funding of \$14,320,000 (nationally) to help accelerate completion of natural resource inventories, target efforts to eradicate non-native species, and improve current management and expertise of biological and geological resources.231

The late 1990s brought increased funding to the park's inventory and monitoring efforts. It also, however, was a period in which park managers became increasingly sensitive to the notion that because the park's ecological issues could not be neatly separated from those of the world beyond park borders, the agency's inventory and monitoring efforts should not be conducted in isolation from those of other, nearby areas. In 1997, the national LTEM program's annual report recognized the need to "enhance national

and global monitoring networks." The Natural Resource Challenge, unveiled in 1999, envisioned 32 such networks spread across the country, and by the close of that year, the agency was shifting "from a model of intensive and comprehensive monitoring at the park level to a more extensive effort at the network level." In Alaska, Denali joined the Wrangell-St. Elias and Yukon-Charley Rivers park units to become the Central Alaska Inventory and Monitoring Network (CAKN). After that point, funding of the park's LTEM program was contingent on the fulfillment of goals that emphasized the increased integration of the Denali program into the network concept. By the late summer of 2003, that integration was complete.232

New Directions in Natural Resource Management

In recent years, park scientists have undertaken research into a number of fields that had previously been overlooked. No measurements of air quality, for example, had been made prior to the 1980s, but perhaps UNESCO's selection of the park, in 1976 as a biosphere reserve, plus the park's consideration as a World Heritage Site, made the agency more aware that air quality was a valuable park resource. In 1980, the National Atmospheric Deposition Program established its first Alaska monitoring station in the park, and by 1987 park staff were also monitoring particulates, visibility, and criteria pollutants. The park's sole monitoring station, at that time, was located on a ridgeline just above headquarters, but in 1998,



The Permafrost weather station is one of five Long-term Ecological Monitoring (LTEM) weather stations installed in 1994 to record long-term variations in climate at different elevations. The station, which is powered by a deep-cycle battery and charged with a solar panel, measures and records air temperature, relative humidity, wind speed and direction, and solar radiation. The site is located in the Rock Creek drainage adjacent to park headquarters where water and air quality, vegetation, and small mammals are also monitored as part of the Central Alaska Inventory & Monitoring Network. NPS Photo



Fire management program goals include the investigation of vegetation plots focusing on plant succession after a wildland fire. The program is supported during the summer by a contract helicopter, which is also used by other park programs. George Hook Photo

action related to the proposed Healy Clean Coal Project (see Chapter 9) resulted in new temporary monitoring stations both north and south of the park. During the past decade, the quality of air measurements in the park has become increasingly sophisticated.²³³

Fire-related issues also assumed prominence. As noted above, fires had been a significant threat during the first few years of park administration, and they had remained a significant source of worry in later years, for two reasons: sparks from passing steam locomotives had a high potential for starting wildland fires, and park residences that were built of wood and heated by wood and coal stoves were vulnerable to destruction by fire. Park records show several instances of fires caused under both circumstances.234 And as noted in Chapter 8, the September 1972 fire that destroyed the McKinley Park Hotel had impacts on park visitors for years afterward. In general, however, fire was a minor factor in "old park" management; some years witnessed no fires of any consequence, while in other years, wildland fires—some of them covering tens of thousands of acres-burned for days and then died without an impact on visitors, structures, or staff.235

Studies of the role of fire in park ecology began with Steve Buskirk's 1976 historical chronicle of park fires. At that time, the NPS still had a decentralized approach to fire management. But just a year later, the agency adopted a new policy that more fully standardized fire policy. In central

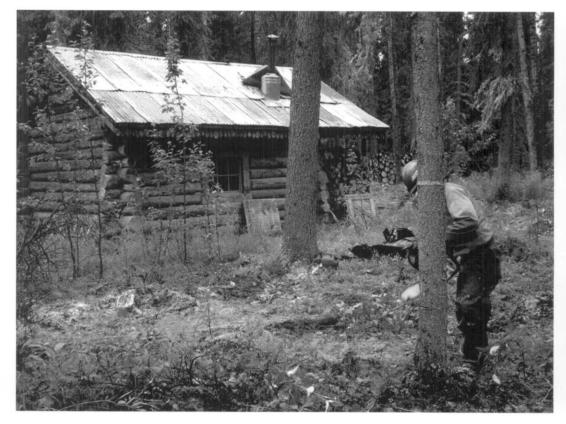
Alaska, fire policy had long been under the aegis of the Bureau of Land Management's Alaska Fire Control Service, primarily because the BLM controlled the lion's share of the state's rural land. That control remained throughout the 1970s. But in recognition of the increasing complexity of Alaska land ownership, officials recognized that a multi-agency effort was in order. Beginning in the late 1970s, therefore, the park's resource manager worked with the Alaska Interagency Fire Management Council (an ad hoc group of state, Native, and other federal fire managers) on the Tanana-Minchumina Fire Management Plan for areas north of the Alaska Range. This plan was completed in 1982. Soon afterward, the council launched an effort to complete a similar plan for other areas in the state, and in 1986 officials completed an interagency fire management plan for the Mat-Su area. Procedures outlined in these plans marked a significant departure from previous attitudes toward fire. Whereas BLM managers typically had adopted a "hit 'em all, hard and fast" fire philosophy, the plans produced during the 1980s were more nuanced; they established a four-tiered system requiring managers to gauge the intensity of fire response, primarily in response to distance from population centers. Fires in "critical" areas, therefore, would demand an immediate, large-scale response; but at the other end of the spectrum, fires in "limited action" areas, would be assessed and periodically monitored but not actively fought. The vast majority of acreage in the park and preserve was declared a "limited action" area.236

By the time ANILCA became law, NPS officials had made it known-both to their BLM counterparts and other Alaska fire management officials—that fire management was much more than mere suppression. Instead, it was (as historian Hal Rothman has noted) "a complete process that included prevention, presuppression, suppression, and prescribed fire, all in the service of larger resource management goals."237 In practical terms, that meant that the NPS planned to develop prescribed fire management capabilities in all of the newly-designated park units, but for the time being, at least, NPS personnel were not responsible for day-to-day fire fighting responsibilities. But NPS officials recognized that the "larger management goals" demanded the accumulation of data regarding cabin locations (both on inholder properties and on federal land), and it also demanded the capability of gathering vegetation and similar information during a fire event or in its immediate wake. In 1981, therefore, the agency was able to procure helicopter services for these purposes. The craft was deployed that summer at various Interior parks, including Denali, Yukon-Charley, and perhaps elsewhere. 238

Late in 1981, NPS Director Russ Dickenson committed the Service to a new operations analysis and budget management process called FIRE-PRO, the agency's fire program management system. This system, which tried to address the financial demands of the new fire management structure, sought to protect cultural and natural

resources by assessing the level of risk to each and deploying resources based on that risk. Under that system, park managers obtained a helicopter for the summer of 1982, and for the next several years it continued to be involved in the cabin inventory, in fire-related vegetation mapping, and in creating and maintaining "defensible space" perimeters around cabins through hazardous fuel reduction. But as Rothman has noted, FIREPRO's core funding account "was designed to be used only for emergency funding, but the efforts of adept administrators created a situation in which national parks used these funds in lieu of their regular budgets." At Denali, fire management funds have underwritten park helicopter services each summer since the 1980s. These helicopters have performed a variety of services, the highest priority of which have been direct responses to fire management needs. But from time to time, helicopters have been used for other purposes as time and resources have allowed.239

The park continues to provide an active fire management program, although the "FIREPRO" designation disappeared shortly after 2000. In 1998, Alaska's fire managers, who by now were called the Alaska Wildland Fire Coordinating Group, abandoned their previous reliance on the various regional plans that had been prepared during the 1980s; given the need to standardize fire responses throughout the state, they hammered out the *Alaska Interagency Wildland Management Plan*, which has been their primary guiding document



In support of fire management program goals, a fire technician reduces vegetation from around the Sushana Ranger Patrol Cabin to prepare an area that is defensible in the event of wildland fire. NPS Photo

ever since. Within the National Park Service, fire management in Alaska is guided by three separate teams; the Western Alaska Area Fire Management Team, which guides operations for six park units, is headquartered at Denali. Parkspecific fire management is guided by the park's fire management plan, which was completed in October 2004.²⁴⁰

Another new management area concerned exotic plant removal. In 1922, Horace Albright had noted that "foreign plant and animal life are not to be brought in" to the parks, and the agency's Fauna No. 1, published in 1933, recommended the reduction or eradication of exotic plant and animal species in the parks. Managers, however, recognized that, at least in some park areas, "exotic plants ... have been carried to practically every corner of the park."241 Various prewar botanical compilations at Mount McKinley (including Ynez Mexia, Aven and Ruth Nelson, Louise Murie, etc.) made no special mention of exotic species. In the late 1940s, staff who were asked about exotics in the park noted that Squirreltail grass, or foxtail barley (Hordeum jubatum), which had been identified earlier, was "showing evidence of rapid spread" at park headquarters, near the park hotel, and along the park highway. In response to the park's complaint, the agency's assistant chief forester cautioned that the grass, while weedy, was "a native species apparently indigenous to Alaska." He nevertheless suggested several control options, foremost of which was "seeding with any of the perennial wheatgrasses (Agropyron spp.), which are often sufficiently aggressive to gradually kill out the Squirreltail grass."242

In the years that followed, exotic plants spread in many of the nation's park units. By 1967, thirty parks had active programs to eradicate or control exotic plant species, and an agency policy handbook published in 1970 declared that nonnative plants and animals would be "eliminated where it is possible to do so by approved methods." An NPS scientist with extensive Alaska experience declared, in 1980, that most parks had exotic species.243 Park officials, however, made no move to combat exotic species until the winter of 1998-99, when vegetation technician Jean Balay launched "Operation Dead Dandelion," a volunteer-based effort to eradicate dandelions from the park road corridor. Balay, and those that followed in later years, recognized that dandelion seeds spread with the movement of automobile tires. Because they had the potential to crowd out native plants, an orchestrated effort was needed to prevent "a yellow line continually from the park entrance to Kantishna."244 Activity subsided after 1999, but since 2002 crews have been an annual phenomenon. Most efforts have been focused near the east end of the park road (although a 2002 crew went all the way west to the Kantishna Airstrip), and volunteers have also concentrated on areas recently disturbed by construction activities. Dandelions have been the primary target species in recent years, although in 2003 and 2004, crews removed sweet clover (Melilotus albus), tufted vetch (Vicia cracca), narrow-leaved hawksbeard (Crepis tectorum), and smooth hawksbeard (Crepis capillaries) from the park's sewage lagoon and Riley Creek campground.245



Led by Vegetation Technician Wendy Mahovlic, right, this crew of volunteers in the Kantishna area eradicated dandelion plants by hand pulling. Exotic species such as these dandelions are not native to the park and can dominate the revegetation of disturbed areas, increasing the difficulty for native species to become established in an area. NPS Photo



Susi Tomsich, a University of Alaska Fairbanks geology undergraduate, found the first dinosaur track in Denali National Park and Preserve, a theropod footprint in the Cantwell Formation. Tomsich, above, sits near two hadrosaur tracks, one on each side of the rock hammer. These represent a second type of dinosaur found in the park, the prey of theropods, providing evidence of past ecosystems. NPS Photo

Recent years have also brought forth a new focus on the park's paleontological resources. Paleontological specimens were first collected by early USGS investigators, such as Alfred Brooks and Stephen Capps, and researchers during the 1950s found additional evidence. The park museum received its first paleontological accessions in 1959 and by 1987, 117 items (plants, mammals, corals, invertebrates, and petrified wood) had been accessioned into the park museum.246 Few elicited much notice. But in the late 1990s, a Bucknell University geology professor, Jeff Trop, located fossilized, prehistoric pollen grains in the Cantwell Formation, and an analysis of that pollen (by Art Sweet of the Geological Survey of Canada) reconfirmed earlier reports that the formation was laid down prior to the dinosaur extinction, and not from the more recent Cretaceous period as had once been hypothesized.

In June 2005, new evidence surfaced. The University of Alaska Fairbanks Department of Geology and Geophysics was in the field as part of its undergraduate field mapping course, and on June 27 Susi Tomsich, a student under the guidance of UAF professor Paul McCarthy, discovered the track of a theropod (a large, bird-like meat eater) near Sable Pass. And later that summer, a second theropod footprint, along with the tracks of various prehistoric wading birds, was discovered on Double Mountain by a team from the NPS, the Dallas Museum of Natural History, and the University of Wyoming.²⁴⁷ Researchers returned to the park in 2007, and in the Sable Mountain area

discovered additional theropod prints, hadrosaur prints, and bird tracks, plus preserved worm burrows and insect-fish trace fossils.²⁴⁸

Continuing scientific efforts have also been mustered to provide answers to the long-term issue of the road's impacts on park wildlife. During the 1973-75 period (see above), Diane Tracy had first analyzed this problem, and during the early 1980s research by Frank Singer and Joan Beattie revisited this problem and made recommendations that became a key component of the park's general management plan. In 1988, agency biologist Dale Taylor began working with the park's bus drivers on a project to collect data "on the effects of park road traffic on the visibility of park wildlife;" this data collection has continued each summer since that time. (Volunteer drivers recorded the number of the various megafauna species on their westbound trips, after which they summarized their data and compared them to those of previous years.)249 Later, in 1995, park staff compiled a pilot study on interactions between traffic and wildlife. This was also the first year of a three-year study showing the effect of vehicle traffic on Dall sheep migrations in the park. Later, in 2003, the park's bus drivers were enlisted to gather data on this topic.250

In 2005, park staff began to plan a large, multidisciplinary study of the impacts of traffic levels of the Denali park road on wildlife, visitor experience, road maintenance and the physical and biological environment of the road corridor. The



Buses on the Denali Park road stop to allow visitors a chance to observe wildlife. Traffic stops, like the one pictured, occur frequently on the park road, and the current park road capacity study is working to determine how congestion associated with these stops might affect wildlife behavior and a visitor's experience. NPS Photo

study began the following year and will continue beyond 2007. Its goal is to determine the road's carrying capacity based on traffic flow, visitor experience and wildlife movements and observations. Officials, recognizing the need to address any anticipated impacts if road traffic were to be increased, plan to write an environmental impact statement about the issue. Pending funding decisions, however, that document has yet to be written. Plans call for experimental increases in traffic on alternate days to determine adverse effects if the evaluation in the document anticipates acceptable impacts.²⁵¹

Mount McKinley's Height: New Studies, Greater Accuracy

Scientific inquiry during the 1980s attempted to provide the most accurate possible answer to the question, "How high is North America's tallest peak?" Given the growing sophistication of measurement technology, this elevation has changed considerably over the years.

As noted in Chapter 1, prospector William A. Dickey named Mount McKinley in 1896. The following January, a New York newspaper story stated that Dickey had estimated the mountain's elevation to be "over 20,000 feet." In 1898, topog-

rapher Robert Muldrow of the U.S. Geological Survey ascended the Susitna River with George H. Eldridge. Using a stadia line and transit, he calculated the mountain's height from six different locations. Using a weighted mean of those measurements, he stated that the peak's "adopted height" was 20,464 feet.²⁵²

Four years later, geologist Alfred H. Brooks and topographer De Witt L. Reaburn led an expedition to areas south, west, and north of Mount McKinley. Reaburn made four additional vertical-angle measurements, with the mean height of 20,155 feet; he then averaged his figures with those of Muldrow's six measurements from 1898 and determined a new mountain elevation of 20,309 feet. Seven years later, H. W. Rhodes from the U.S. Coast and Geodetic Survey took two additional measurements of the mountain from Cook Inlet. Although both of his observation points were more than 125 miles from Mount McKinley, his instruments were more accurate than those available to USGS field personnel. In a 1910 report, agency official William Bowie noted that the two measurements were 20, 274 feet and 20,322 feet. He concluded that the weighted mean was 20,300 feet, and that this value was "correct within 150 feet." Brooks and other USGS



Bradford Washburn conducted extensive surveying and mapping during the "Operation White Tower" expedition that climbed Mt. McKinley. He spent an unprecedented ninety days on the mountain in 1947. Operation White Tower Collection, Denali National Park and Preserve Museum Collection

officials, in a 1911 publication, accepted Bowie's 20,300-foot elevation as being correct.²⁵³

For the next 45 years, the mountain's official height remained 20,300 feet. But as noted in Chapter 13, Bradford Washburn began showing an interest in the mountain during the mid-1930s, and he first climbed it in 1942. Five years later, he returned to the mountain and conducted extensive survey work, including tripod measurements made at the summit, and in 1951, he and his crew surveyed much of the West Buttress route. Based on those efforts, and additional measurements in 1954, the National Geographic Society (which had been sponsoring Washburn, off and on, for twenty years) announced in August 1956 that "based on more than ten years of surveys of the mountain ... the United States Geological Survey had officially declared McKinley to be 20,320 feet."254 Perhaps in response to this announcement, a number of publications adopted this new height. But the USGS did not, and government officials for another twenty years, perhaps longer, reiterated that "the official height of the mountain is still 20,300 feet."255

In June 1977, the National Outdoor Leadership School launched an expedition up the mountain with the express purpose of determining the mountain's height. Expedition members hauled 33 prisms up the mountain. They reached the summit on July II, and shortly afterward, Brad

Washburn—who worked from Eielson Visitor Center and several nearby sites—shot a series of laser beams at the prisms and recorded the results. A week later, Washburn announced that the new measurement showed that the peak's altitude was "within a foot or so" of the accepted 20,300-foot figure. He stated that "we may come up with a slight change in altitude, but I think it's very close." The USGS made no changes as a result of these measurements; this may have been because (as later reported), "McKinley exerts enough gravitational pull to distort standard surveying techniques."256 Shortly afterward, however, USGS personnel apparently concluded that Mount McKinley's official height was 20,320 feet (as Washburn had indicated in the mid-1950s) rather than 20,300 feet.

A renewed attempt to measure the mountain's height took place in early June 1989, when a scientific team, sponsored by the U.S. Geological Survey and the University of Alaska Anchorage, headed toward the summit carrying a Global Positioning System receiver. The researchers and support climbers reached the top on June 21 and used the receiver in conjunction with a Global Positioning Satellite. The technology could purportedly "convert satellite signals into measurements to the nearest 5 millimeters" (or one-fifth of an inch). By late July, the scientists had determined that Mount McKinley's summit elevation was 20,306 feet, plus or minus six inches. But

USGS officials, noting inconsistencies in their gravitational measurements, did not officially accept the new figure because it was insufficiently comprehensive to warrant a change. Given the inconclusive results of the data collection effort, the peak's official height remains 20,320 feet.²⁵⁷

Cultural Resource Issues at Mount McKinley National Park

The Congressional bill that established Mount McKinley National Park, in 1917, made no specific identification of the park's cultural resources nor of any particular need to protect them. This, combined with the fact that the NPS, as an organization, was slow to heed the language in the Organic Act that called for the agency "to conserve the ... historic objects ... therein," meant that little attention was paid to cultural resource concerns. Practicality prevailed.

Perhaps the first efforts to protect historical values began in 1932, when Supt. Harry Liek headed down the Toklat River and took photographs of the cabin where Charles Sheldon and Harry Karstens had lived during their visit to the area in 1907-08. The following summer, Liek returned to the "old Sheldon cabin," which was still standing, "for the purpose of taking measurements and pictures for use in restoration." Liek continued his interest in later years.²⁵⁸

No work was done, however, and when Supt. Been visited in 1941, he noted "the crumbling condition of Charles Sheldon's cabin ... If restoration work is

desirable, it must be done soon." But Adolph Murie, who became familiar with the cabin during his 1939-41 field work, expressed a different point of view. In a 1942 article, he noted that

The cabin he used is now in ruins and the cache is tottering. ... The cabin is deteriorating, a swing of the river may destroy it suddenly, but I have a feeling it should be left alone. I think that Sheldon, with his love for wild places, would like to have his cabin crumble to earth with age.²⁵⁹

The cabin, in fact, did "crumble to earth with age," because by 1959 the cabin was in such ruinous shape that in order to rehabilitate the cabin, it "would have had to be completely reconstructed." And in 1969, the park's chief ranger noted that "the only remains are a few decayed logs which are rapidly melting into the soil" and that the winding Toklat River was now eating at the site of the cabin." Wildlife advocates, by this time, were interested in the cabin's "preservation and interpretation," but the cabin's poor condition, combined with its isolation from the park road, precluded any serious rehabilitation efforts. 260

As noted in Chapters 5 and 6, the recently abandoned buildings on the Morino Tract caught the eye of a visiting New York congressman, who hoped that the buildings could "be preserved as an exhibit of ... early Alaskan development and



When Superintendent Frank Been visited the Sheldon Cabin in June 1941, the 34-year-old original cabin and the 1914 addition were both badly deteriorated. DENA 4-5, Denali National Park and Preserve Museum Collection

building construction." That idea soon faded away. Of more sustained interest, however, were the "many articles" that were acquired from the Army's 1942 test expedition. These, plus scattered items from other sources, constituted the core of the park's museum collection, and shortly after the military (in the spring of 1943) opened up the park hotel as a rest and recreation site, NPS officials converted an "old office building" at headquarters into a small museum. The museum remained open, off and on, until 1950. ²⁶¹

Historical studies commenced at the park during the early 1950s. In May 1951, regional historian Aubrey Neasham visited the park. Perhaps as a result, Supt. Grant Pearson—who by now had been at the park for more than twenty years—beMerriam, and Sheldon's widow, Louisa.263 A year later, in July 1952, park staff decided to move the plaque honoring Stephen T. Mather—which had been located near the ranger dormitory since being installed in 1934—to "a more prominent position near the Naturalist office."264 And in 1958, the Pioneers of Alaska members, probably from the Fairbanks Igloo, sponsored the casting of a plaque in memory of Harry Karstens, the pioneering park superintendent who had died in November 1955. On July 27, 1958, a small crowd gathered near the Toklat River bridge, at the same rock wall where the Sheldon marker had been erected eight years earlier. Attending the brief dedication ceremony were several major figures from the park's early history including concessioner Robert Sheldon, who had been involved in



Constructed in 1926, the original Superintendent's Office at park headquarters served as the administrative office until mid-1941, when the one-room building was considered "dilapidated." By the spring of 1943 the building, still in its original location, was adapted for reuse as the park's first museum. DENA 4-2.7, Denali National Park and Preserve Museum Collection

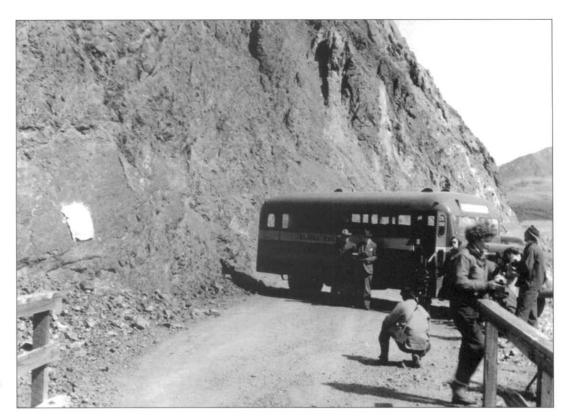
gan writing a park history, and by March 1952 he had completed a draft of it. The 91-page book was completed in 1953, and both Director Conrad Wirth and other agency officials congratulated him because "it is an interesting and suggestive compilation of data presented in something of an informal reporter style."

The 1950s also featured the placing of several bronze plaques that memorialized people who had made prominent contributions to the park. In early 1951, the Boone and Crockett Club sent the park a marker commemorating Charles Sheldon, who played such a critical role in the park's establishment. Park staff reacted by installing it that spring on a rock wall on the east side of the Toklat River bridge, 3.5 miles upstream from Sheldon's deteriorating cabin. On June 22 a dedication ceremony was held at the plaque; Robert Reeve, the Alaska aviation pioneer, gave a speech to an audience that included NPS Director Arthur Demaray, Regional Director Lawrence

park affairs from the mid-1920s to the early 1940s; former Supt. Grant Pearson, whose work at the park had spanned the years from 1926 to 1956; and Karstens' widow, Louise, who in the mid-1920s had worked at the park as a \$1-per-month park ranger. 265

Interest in the park's archeological resources began in late 1958, when regional NPS officials wrote to University of Alaska professor Ivan Skarland and invited him to submit bids for a parkwide archeological survey. Skarland, in response, estimated that such a survey would take two field seasons and cost \$18,400. The NPS then sent its regional archeologist, Paul Schumacher, to the park for further consultation, but nothing specific resulted from that visit.²⁶⁶

The first archeological survey work in the park took place in the summer of 1960, after a geological field party stumbled upon two prehistoric sites just north of Teklanika Campground. These



This photograph shows the June 22, 1951 dedication of the plaque commemorating the achievements of Charles Sheldon. In 1958 a plaque was added in memory of Henry (Harry) Karstens. Both plaques are now on display at the Toklat Contact Station, on the west side of the Toklat River. National Archives & Records Administration

sites, later designated Teklanika West and Teklanika East, were soon visited by a University of Alaska anthropology professor, Frederick Hadleigh West, and they were of sufficient interest that the NPS sponsored a field camp for the following summer in which two UA archeologists, Ronald Boyce and Beryl Beard, excavated pits at each of those sites. Additional sites found that summer were located in the vicinity of Double Mountain, Sanctuary River, and Sable Mountain. West, or crews working under his direction, continued to work at Teklanika for the next several years.²⁶⁷

In 1963, UA geographer H. Morris Morgan obtained an NPS contract "to locate additional sites in order to lay the ground work for continuing evaluation of the park's archeological resources." In response, he conducted a reconnaissance or preliminary survey which focused on selected high ground areas along the park road corridor between the park hotel and Teklanika Campground. After locating 11 new prehistoric sites, he reported that "for the present, it seems that sufficient archeological surveys have been done in the Park."268 To follow up on Morgan's work, UA archeologist Adan Treganza, accompanied by two assistants, arrived at the park in June. Under an NPS contract, Treganza revisited each of Morgan's 11 sites and located five additional sites, all near the park road and primarily east of Sanctuary River. Treganza, like Morgan, applied less-than-rigorous methodology to his field work; and he similarly concluded that "no further work is recommended for Mount McKinley National

Park as human prehistory appears not to be one of its attributes." Reports such as these discouraged further investigations, and for more than a decade, the agency sponsored no further survey efforts.²⁶⁹

Preservation values became important in the late 1960s. By 1966, park staff had recognized the need to restore the old Upper Toklat patrol cabin (Pearson Cabin), which rangers Grant Pearson and Lee Swisher had built in 1927. Accordingly, staff hoped that the cabin, along with the nearby dog houses and cache, could be "preserved as a permanent interpretive exhibit typical of those used by protection personnel during the early history of the park." After some delay, agency architects prepared a historic structures report for the various structures at the site; it called for a restoration of the cabin to its 1928 condition, a rehabilitation of the cache, and a reconstruction of the dog kennels. The cabin work was completed by 1973, and the remainder of the project soon afterward.270 In 1976, the cabin served as a "bicentennial living history demonstration" in which seasonal employees Frank Buono and Steve Carwile played the role of ranger Grant Pearson. An agency report noted that "the Toklat Historic Cabin was lived in and manned daily this summer. ... Visitors viewing these operations and the historic living conditions thoroughly enjoyed it."271

Archeological research resumed during the mid-1970s with two studies conducted just north of



The Teklanika West archeological site is located on a rocky bluff overlooking the wide braided gravel bars of the Teklanika River, a classic lookout site for hunters to observe the movements of game animals. DENA 19-17, Denali National Park and Preserve Museum Collection

the park (and on land that would soon become park of the expanded park and preserve). Meanwhile, federal officials moved to protect archeological sites in the park vicinity. Initial cultural resource overviews of the state, which had been conducted in the early 1960s, had failed to identify any nationally-significant archeological or historical sites in or near the park. But in September 1974 the Dry Creek early-man site, located just north of the park, was declared a National Historic Landmark, and in January 1976, the Teklanika Archeological District (an area that included both of the sites discovered in 1960) became the park's first entry into the National Register of Historic Places. 272

Cultural Resource Management at Denali National Park and Preserve

In 1980, Alaska Area Office archeologist Craig Davis, recognizing the almost total dearth of extant archeological knowledge about the areas enclosed within the newly-proclaimed Denali National Monument, spent 25 days in the park and conducted a brief archeological reconnaissance. He recorded 16 new prehistoric sites, primarily lithic scatters on high ground in the Teklanika, Sanctuary, and Savage River drainages. The primary goal of his fieldwork was to gather data for upcoming management plans. Perhaps as a result of that survey, the park's first resource management plan, in April 1982, stated that the park's top cultural resource goal was the compilation of a four-year, \$500,000 cultural resource

inventory; more specifically, it stated that "an immediate need is to complete essentially preliminary site studies and architectural evaluations for critical area resources" such as the Teklanika Archeological District, the headquarters area, and other historic structures. The plan also called for the completion of a historic resources study, which would be primarily based on the results of the first year's inventory work, plus an administrative history, which would be a yearlong project to update Pearson's 1953 history.²⁷³

The agency showed no immediate interest in funding any of the park's cultural resource priorities. The approval of a number of smaller projects over several years, however, was a positive response to the park's needs. Beginning in 1982, for example, crews working in the park's fire management program (see above) compiled a remarkable inventory of cabins, both historic and contemporary, and by 1984 information on well over 200 cabins and ruins was available, not only to fire managers but to cultural resource specialists as well. Then, in the spring of 1985, the region's historical architect, Dave Snow, prepared design guidelines for the so-called "Headquarters Historic District." Meanwhile, the agency hired a University of California Santa Barbara graduate student, Gail Evans, for two historical research projects. The first involved the park's older patrol cabins, while the second called for an investigation into the various headquarters buildings. The goal of both efforts was the preparation of



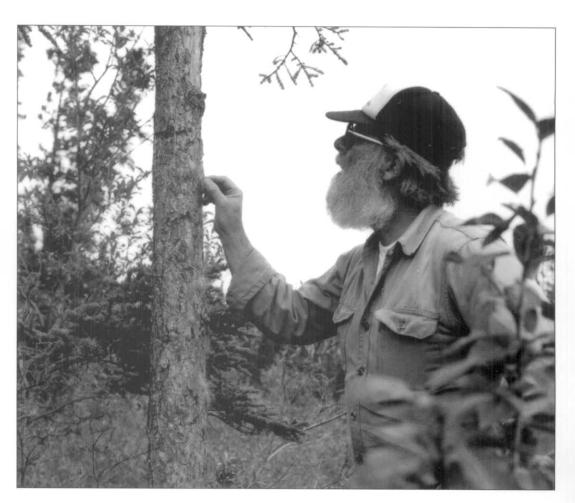
NPS seasonal interpreter Steve Carwile lived and worked at the Pearson Cabin beginning the summer of 1976 and for the full summers of 1977 through 1979, providing site interpretation for park visitors arriving by tour bus. This living history demonstration included two sled dogs at the historic duplex dog houses. DENA 2254, Denali National Park and Preserve Museum Collection

National Register of Historic Places nomination forms. Evans's work, remarkably, brought quick results. Her patrol cabins nomination, which included five cabins along the "old park's" northern boundary, five others along the park road, and three near the park's southeastern corner, was accepted in November 1986, while her head-quarters-area nomination was entered onto the National Register in October 1987.²⁷⁴

Meanwhile, other projects were being pursued. Given Evans's substantial historical information, Snow worked with archeologist Paul Gleeson and historian Robert Spude on a three-volume historic structure report (HSR), for both the headquarters area and Wonder Lake buildings, which was completed in January 1987. By this time, historian Bill Brown was well underway with a historic resource study. Brown, recognizing



Projects to inventory Denali's cultural resources included the documentation of sites such as this Kantishna Mining District historic lode mining site, referred to as DENA #154, the Alpha Ridge site, consisting of this cabin, a shed, adits, tailings and artifacts. NPS Photo



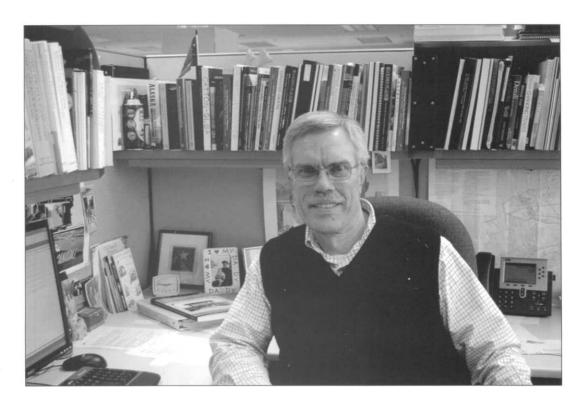
William E. "Bill" Brown, NPS historian for more than 30 years, spent several years researching and writing Denali's historic resource study, published in 1991. That document was later published as *Denali – Symbol of the Alaskan Wild*, a comprehensive, illustrated history of the park. NPS

the broad research opportunities available in the various park collections, moved to the park for the duration of his study, which was completed in draft form in 1989. The study was published by the NPS in 1991, and it proved so popular that in 1993, the Alaska Natural History Association produced a reformatted version of Brown's book for popular consumption. Brown's research, valuable as it was for the general information it provided, had a practical side, too. From time to time during the 1980s, the NPS sparred with the park concessioner about the road's design, construction, and maintenance, and also with the State of Alaska over the ownership of the park road (see Chapter 9). When court cases arose in these two matters, the documentation that Brown provided helped buttress the federal government's case.275

During the 1980s, agency staff learned valuable new information about the park's cultural resources through its compliance investigations. These investigations, which responded to proposed development actions, involved both bibliographic research and on-the-ground field work. They were legally sanctioned by the National Historic Preservation Act of 1966 and first implemented at the park in the late 1970s. The preparation of compliance documents, by regional office personnel, remained fairly sporadic

until the mid-1980s. After that point, however, the region's Archeological Resources Management Unit applied compliance more intensely at the park, and hundreds of documents have been generated since that time, and on the basis of that amassed data, Kristen Griffin in 1990 wrote a park archeological overview and assessment. In the mid-1990s, the responsibility for Denali's compliance program shifted from the regional office to the park.²⁷⁶

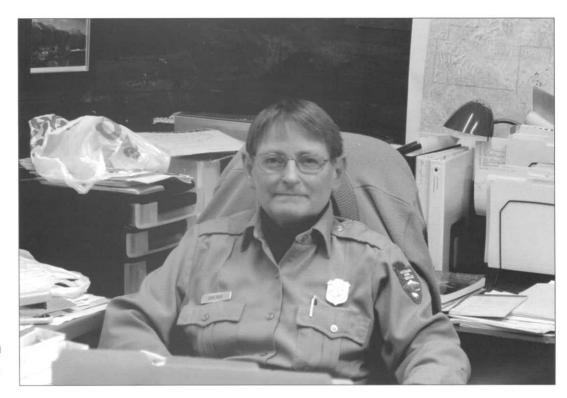
Given the results of Gail Evans's cabin histories, the agency's architectural staff during the early 1990s began compiling a series of historic structure reports. In 1992, Gail teamed with David Evans on at least two cabin HSRs, and the following year Randall Skeirik worked with Steven Peterson on an HSR for a headquarters-area building. Perhaps six to eight of these reports have been completed to date. And in response to these reports, several historic cabins have been rehabilitated by the park's maintenance staff.²⁷⁷ Because of the structural similarity of the various early patrol cabins, and because of strong working relationships between the regional historical architect's staff and the park's preservation crew, the various initial HSRs have served as an effective template for historic cabin rehabilitation efforts throughout the park. Additional HSRs will be completed as the need arises.278



Frank Norris served as a historian in the NPS's Alaska Regional Office for 17 years. NPS Photo

The Herning cabin, located between Thorofare River and Mount Eielson, received considerable attention from agency staff during this period. This cabin, easily visible from the Eielson Visitor Center, had been part of Harold Herning's claims and had been moved to the site, from Fairbanks, in 1954 (see Chapter 14). But in 1983, Herning's claims had been declared null and void, and in June 1992 park employee Sandra Kogl noted that the cabin was "in extreme disrepair" and "unauthorized use [was] taking place." On that basis, she recommended that the "cabin and its

associated junk should be removed from the viewshed of Eielson Visitor Center. Suggest this be a project for a Sierra Club type of work group." The park's resource chief and the superintendent approved the proposed action, and in response, the January/February 1993 issue of *Sierra Magazine* advertised a Sierra Club "service trip," scheduled for late August 1993, in which the participants would "dismantle an old miner's cabin." But Sandra Faulkner, who served as the agency's Regional Historic Preservation Officer, noted that "this site was associated with several



An NPS employee in Alaska since 1990, Ann Kain served as Denali's first Cultural Resource Manager from 1997 to January, 2008. She facilitated programs in museum collections, archeology, ethnography and historic preservation. NPS Photo



In the early 1920s a small lode mining camp was located at the base of Copper Mountain, later renamed Mt. Eielson. Harold Herning built this cabin on his claims in 1954. This cabin and the remains of the 1920s camp, to the right of the cabin, stand as reminders of historical activities in the Mt. Eielson Mining District. William Weber Collection, Cultural Resources, Denali National Park and Preserve

historic mining claims and both historic and modern tools and equipment are scattered about the area." Thus, in order to comply with provisions in the National Historic Preservation Act of 1966, she asked that the site "be surveyed by our mining inventory crew for cultural resources." Based on that recommendation, a four-person NPS crew spent two days at the site in June 1993. After receiving the crew's report, the agency's regional archeologist recommended that no action be taken to the cabin itself; he did, however, suggest the removal of hazardous materials and recent trash from the site. Given that recommendation, the Herning cabin still stands today, although in severely deteriorated condition. Despite a mid-1990s cleanup effort, some debris remains in the cabin's vicinity.279

Throughout this period, the park's cultural resources had been managed by personnel who had no specialized background or expertise in a cultural resource field. That need, which had been identified as early as the park's 1982 resource management plan, was initially addressed with the hiring of Jennifer Wolk as the park's first museum curator. In 1997 Ann Kain, formerly a historian in the agency's regional office, was added to the park staff. Kain spent the next decade on the job and played a major role in incorporat-

ing cultural resource concerns into overall park management. During that period, two employees have joined her staff: cultural anthropologist Jane Bryant (who has worked at the park, off and on, since 1967) and museum curator Jane Lakeman, who succeeded Wolk in 2006. Recent cultural resource projects have included an ethnographic overview and assessment, a headquarters-area cultural landscape report, and various culturally-focused exhibits.

Subsistence Issues

As noted in Chapter 8, both Interior Department officials and Congress recognized during the 1970s that most of the new lands that were being considered as NPS units in an Alaska lands bill needed to be open to subsistence uses. Accordingly, the proclamation that President Carter signed in December 1978 to establish Denali National Monument stated that "the opportunity for the local residents to engage in subsistence hunting is a value to be protected and will continue under the administration of the monument." Consistent with that statement, the Alaska National Interest Lands Conservation Act likewise provided that subsistence uses would be sanctioned in all so-called "new park" lands as well as within Denali National Preserve. The bill, however, made no move to sanction subsistence



In January 2007 Florence Collins, center, received the 2006 NPS Summit Award for Lifetime Achievement for her nearly 25 years of guidance and leadership on Denali's Subsistence Resource Commission. The award was presented by Alaska Regional Director Marcia Blaszak, left, and Florence's daughter Julie. NPS Photo

uses within the "old park," and subsistence uses there remained off limits.

Soon after ANILCA was signed, the Interior Department moved to establish regulations that specified the structure of subsistence activities at Denali and other Alaska park units (see Chapter 9). These regulations were in place by June 1981. What was lacking, however, was a federally-sanctioned commission that could represent local subsistence users. Congress mandated that the members for such a commission needed to be chosen by December 1981 and that, by June 1982, the assembled commission needed to "devise and recommend to the Secretary and the Governor a program for subsistence hunting within the park or park monument." But for various reasons, the Denali National Park Subsistence Resource Commission was unable to hold its initial meeting until May 1984. Since that time, meetings of this advisory body have been held every six months or so. Florence Collins, a Lake Minchumina (later Fairbanks) resident, guided the SRC from its inception until August 2007; since that time, Ray Collins of McGrath has served as the SRC chair.280

When park officials, during the hectic days following the passage of the Alaska Native Claims Settlement Act, recognized that millions of acres might be added onto Mount McKinley National Park, they tried to gather substantial baseline information about the nature of ongoing subsistence activities. Some of these data were gathered by field examiners during the 1972-74 period, and a brief (four-page) section on subsistence appeared in the October 1974 Final Environmental Statement. To learn more, however, officials contacted Cooperative Park Studies Unit personnel in Fairbanks, and Richard Bishop agreed to investigate subsistence patterns in the areas proposed for inclusion north of the Alaska Range. That study included site visits to, or communications with, residents of Telida, Lake Minchumina, Kantishna, Bearpaw, Nikolai, and Nenana. The study was completed in late 1977 and published a year later. 281 Just a year later, Dianne Gudgel-Holmes, in a state-sponsored navigability study, provided extensive historical data about the historic use of the Kantishna, Upper Kuskokwim, and Nenana river drainages. On the basis of that expertise, Ms. Gudgel-Holmes then teamed up with William Schneider (from UAF) and park employee John Dalle-Molle on an NPS-sponsored study, published in 1984, that examined historical land use patterns in the "new park" and preserve areas north of the Alaska Range.282

In the twenty-plus years since the park's subsistence resource commission began meeting, it has dealt with a welter of issues. Many of its decisions, particularly since the mid-1990s, have been recommendations related to hunting and fishing regulations. To lend perspective to those recommendations, NPS and other agency staff have analyzed the proposal and, at times, conducted research that has either buttressed or



The Fish Lake cabin, seen in this 1995 photograph, played a prominent role in the long history of trapping in the north additions of the park. This site represents the activities and subsistence lifestyle of trappers who made their living in this area. NPS Photo



The NPS monitors the condition of historic resources such as the Fish Lake cabin, pictured here in 2007. NPS Photo

mitigated the SRC's recommendations. Each of these recommendations, in turn, has been voted on by regional advisory council, and later by the Federal Subsistence Board.²⁸³

Beyond this regular round of harvest recommendations, other researchers have completed studies—funded partially or entirely by the NPS—that lend further background to the park's present and historical subsistence patterns. Gud-

gel-Holmes, for example, spent many years on the Kantishna Oral History Project; this included a series of transcribed interviews with elders that took place during both 1982-83 and 1988, and the project also included a history, published in 1991, of Native place names in the Kantishna watershed. In 1999, Gudgel-Holmes and two others completed a study examining the traditional use of various structures in the park unit's north additions; that same year, linguist James Kari

produced a draft Native place names mapping study of the park.²⁸⁵

In 2000, the NPS sponsored several community histories under a cooperative agreement with the Alaska Department of Fish and Game's Division of Subsistence. Longtime SRC member Ray Collins, in September 2000, completed a history of Nikolai and Telida, and three months later, Cantwell resident Brenda Rebne completed a brief history of Cantwell's Native village. That same year, the students and teachers of Minchumina Community School produced a history of Lake Minchumina, and the Tanana Tribal Council produced A Short History of the Native Village of Tanana. The park's ethnographic overview and assessment, completed in 2001 by a trio of ethnographers, was also written in response to the state-federal cooperative agreement.286

In order to manage the park subsistence activities, Superintendent Cunningham during the 1980s, asked Ralph Tingey, the park's management assistant, to serve as the NPS liaison to the Denali Subsistence Resource Commission. Tingey retained that role until 1991, when Hollis Twitchell became the park's first specifically-designated subsistence specialist. Twitchell remained on the job for more than a decade. Amy Craver presently manages park subsistence matters.²⁸⁷

A major subsistence-related matter in recent years has concerned the extent to which subsistence ORV access would be allowed in the Windy Creek, Cantwell Creek, and Bull River drainages. Another major subsistence issue has been the proposal to develop a resort along Spruce Creek in the Kantishna Hills, a proposal that would have had severe impacts on the area's subsistence hunting opportunities. These issues are discussed in chapters 10 and 14, respectively.

- ¹ Theodore Roosevelt, "The American Hunter-Naturalist," *The Outlook* 99 (December 9, 1911), 856; William E. Brown, *Denali, Symbol of the Alaskan Wild* (Anchorage, Alaska Natural History Association, 1993), 81-86.
- ² Sheldon to Mather, December 15, 1915; Thomas Riggs, Jr. to Mather, December 17, 1915; both in "Proposed National Parks: Mt. McKinley" folder, Box 111, General Records, Central Files, RG 79, NARA CP.
- ³ 64th Congress, 1st Session; H.R. 14775 (April 18, 1916) and S. 5716 (April 22, 1916).
- ⁴ 64th Congress, Public No. 353 (February 26, 1917), in *United States Statutes at Large* 39, p. 938.
- ⁵ Superintendent's Monthly Reports, Mount McKinley National Park (hereafter known as SMR, MOMC), June 1921, 2.
- ⁶ SMR, MOMC, July 1921 through December 1922.
- ⁷ Nelson to Mather, May 7, 1921; Mather to Nelson, June 6, 1921; Karstens to Nelson, May 13, 1922; all in "Wild Animals, Part 1 and 2" file, Box 112 (MOMC), RG 79, NARA CP; SMR, April 1922, 5.
- ⁸ SMR, July 1922, 6, and October 1922, 4; Timothy Rawson, *Changing Tracks; Predators and Politics in Mt. McKinley National Park* (Fairbanks, University of Alaska Press, 2001), 37.
- ⁹ Linda S. Franklin, *Adolph Murie: Denali's Wilderness Conscience* (unpublished M.A. Thesis, University of Alaska Fairbanks, May 2004), 21; Rawson, *Changing Tracks*, 34.
- ¹⁰ Nelson to Mather, April 13, 1922, in "Wild Animals, Part 1 and 2" file, see above; Margaret E. Murie, *Two in the Far North* (Anchorage, Alaska Northwest, 1978), 78, 80; Jim Rearden, *Alaska's Wolf Man: the 1915-55 Wilderness Adventures of Frank Glaser* (Missoula, Pictorial Histories Publishing, 1998), 83.
- ¹¹ SMR, May 1922, 3; June 1922, 2; July 1922, 2; August 1922, 2, 4.
- ¹² SMR, July 1922, 2, and September 1922, 2; Franklin, *Adolph Murie*, 22, 24, 26; Murie, *Two in the Far North*, 80; Brown, *Denali, Symbol of the Alaskan Wild*, 148-49.
- ¹³ According to the *Fairbanks Daily News-Miner*, August 17, 1922, 1, "a large number of caribou mixed with the herd at different times" during the 1921-22 reindeer drive, "but no harm was done. In the Iditarod region," for example, herders "resorted to lassoing the caribou and tying them up until they had driven the herd on, when they released them."
- ¹⁴ Rawson, Changing Tracks, 92; SMR, August 1922, 2; September 1922, 2; Fairbanks Daily News-Miner, October 13, 1923, 2.
- ¹⁵ SMR, October 1924, 3; August 1925, 3, 8-9; Hal G. Evarts, "Game in the Foreground," *Saturday Evening Post* 198 (May 22, 1926), 30-31, 225-30. Karstens, in his December 1925 superintendent's report (p. 4), stated that a "publication" of the park's natural attributes was "now on record at Washington, D.C." No known record of such a publication exists, however.
- ¹⁶ See, for example, SMRs for December 1925, 4-5; April 1926, 4-5; and July 1926, 4-5.
- ¹⁷ A.E. Demaray to T.S. Palmer, December 5, 1924, in "Wild Animals, Part 1 and 2" file, see above.
- 18 SMR, September 1925, 2; January 1926, 4.
- ¹⁹ Adolph Murie discussed the surfbird in "Wildlife of Mount McKinley National Park," *National Geographic* 104 (August 1953), 252, 269. Supt. Liek, upon hearing of Wright's untimely death in February 1936, noted that scientists had "searched for the surf bird nests for over 150 years and the only one on record is the one found by George Wright." SMR, February 1936, 1.
- ²⁰ Richard West Sellars, *Preserving Nature in the National Parks: A History* (New Haven, Yale, 1997), 86-87; Russ Olsen, *Administrative History: Organizational Structures of the National Park Service, 1917 to 1985* (Washington?, NPS?, September 1985), 36-37; George M. Wright, Joseph S. Dixon, and Ben H. Thompson, *Fauna of the National Parks of the United States: A Preliminary Survey of Faunal Relations in National Parks*, Fauna Series No. 1 (Washington, GPO, 1933), iv; U.S. Department of the Interior, *Annual Report* (Washington, GPO, 1933), 177; Rawson, *Changing Tracks*, 67; SMR, May 1926, 4; SMR, July 1926, 6.
- ²¹ Rawson, Changing Tracks, 92-93; SMR, January 1926, 4; October 1926, 4; October 1927, 2, 7.
- ²² USDI, Annual Report for 1927 (p. 145) and 1928 (p.182).
- ²³ SMR, August 1927, 3; SMR, October 1927, 5, 6; February 1928, 3; January 1929, 3.
- ²⁴ Rawson, *Changing Tracks*, pp. 53, 85, and 158 notes that estimates of the park's major animal populations during the 1920s were either poorly-designed or done retrospectively.
- ²⁵ SMR, February 1931, 2 October 1931, 3; February 1933, 3; October 1933, 3; November 1933, 3; September 1936, 5; September 1937, 6; February 1938, 4; October 1938, 4.
- ²⁶ SMR, May 1933, 1; August 1937, 5; September 1937, 6; June 1939, 4; May 1940, 6; June 1940, 5; November 1940, 4; June 1941, 3.
- ²⁷ Acting Director NPS to RD/R4, May 16, 1947, in File 700.01 (Nature Study, 1940-53), Box 82, CCF, RG 79, NARA SB. Also see Appendix C in the first volume of this study.
- ²⁸ SMR, June 1928, 4-5; Sylvia Mendoza, *The Book of Latina Women; 150 Vidas of Passion, Strength, and Success* (Avon, Mass., Adams Media, 2004), 85-86; A.E. Haley-Oliphant, "Ynez Mexia, Botanist, 1870-1938," in M.L. Matyas and A.E. Haley-Oliphant, editors, *Women Life Scientists: Past, Present, and Future: Connecting*

Role Models to the Classroom Curriculum (Bethesda, Md., American Physiological Society, 1997), 203-16; J.D. Coffman to Supt. MOMC, January 16, 1939, in File 701 (Flora), Box 82, CCF, RG 79, NARA SB.

- ²⁹ SMR, July 1932, 3; June 1933, 3; September 1933, 5; Harry J. Liek to Herbert L. Mason, September 19, 1933, and A.E. Demaray to Lorin T. Oldroyd, June 2, 1939; both in File 701, see above; Carl Roland, *The Vascular Plant Floristics of Denali National Park and Preserve: A Summary, Including the Results of Plant Inventory Fieldwork 1998-2001*, NPS Central Alaska Network Inventory and Monitoring Program, Final Technical Report CAKN-04-01 (Denali Park, AK, NPS, March 2004), Chapter 3.
- ³⁰ SMR, June 1939, 3; July 1939, 4; August 1939, 3; September 1939, 4; April 1940, 4; Rawson, *Changing Tracks*, 160. In 1942, Dr. Nelson completed a 65-page *Report on the Study of the Plants on Mount McKinley National Park with a List of the Plants Collected in 1939*; see Technical Information Center report number 184/ D-230.
- ³¹ SMR, November 1925, 8; May 1926, 3; October 1933, 4; Bill Myers, "White Trails," *American Forests* 35 (August 1929), 478, 541.
- 32 SMR, June 1928, 4; September 1929, 3; July 1940, 4.
- ³³ In 1923, a prospector named Zimmerman told Supt. Karstens that "he would kill any bear he met with in the Park or elsewhere and that the other prospectors would do the same, claiming that bears destroyed their caches." SMR, September 1923, 5; Dixon to Director NPS, October 28, 1932, in File 715-02 (Bears), MOMC, Entry 6, RG 79, NARA CP.
- 34 SMR, August 1928, 3; September 1932, 2; March 1933, 1; Dixon to Director NPS, October 28, 1932, see above.
- 35 SMR, July 1934, 6; September 1937, 6.
- ³⁶ SMR, October 1938, 4; June 1940, 5; July 1940, 4; June 1942, 3; June 1944, 2. Supt. Been, in his July 1940 report, was unsurprised at the wolf and bear activity at the ARC camp but regarding Camp Eielson, he surmised that the bears "must be attracted by food odors as garbage is carefully disposed of."
- ³⁷ SMR, September 1928, 4; February 1930, 2; October 1931, 4; October 1933, 4; November 1934, 5; February 1938, 5; December 1939, 4; December 1940, 4.
- ³⁸ SMR, August 1925, 9; February 1929, 4; November 1929, 3; December 1932, 3. In December 1942 (p. 2), the superintendent noted that "feeding trays for the chick-a-dees" were located adjacent to each headquarters residence, but whether they also existed in earlier years is not known.
- ³⁹ SMR, February 1924, 5-7; March 1924, 2-3.
- 40 SMR, April 1927, 3; June 1928, 4.
- ⁴¹ SMR, April 1929, 3; May 1929, 3; June 1929, 4; July 1929, 3; Seward Daily Gateway, May 8, 1929, 6.
- ⁴² Supt. Liek, assisted by Chief Ranger Lou Corbley, placed a salt lick in the Sable Pass area. SMR, June 1936, 2.
- ⁴³ Rawson, *Changing Tracks*, 161, 182-83; SMR, May 1940, 5; October 1940, 5; Adolph Murie, "Wildlife of Mount McKinley National Park," *National Geographic Magazine* 104 (August 1953), 252.
- 44 SMR, October 1940, 5; May 1943, 2.
- ⁴⁵ SMR, June 1928, 4-5; February 1932, 1; August 1932, 3; May 1932, 2; Terrence Cole, *The Cornerstone on College Hill* (Fairbanks, University of Alaska Press, 1994), 97.
- ⁴⁶ "Secretary Lane's Letter on National Park Management," May 13, 1918, in Lary M. Dilsaver, ed., *America's National Park System: the Critical Documents* (Lanham, Md., Rowman and Littlefield, 1994), 49.
- ⁴⁷ SMR, October 1922, 6; February 1924, 5; January 1926, 3; February 1926, 1, 5.
- ⁴⁸ SMR, July 1923, 10; June 1924, 5-6; July 1924, 1-4; *Fairbanks Daily News-Miner*, July 17, 1924, 8; July 31, 1924, 1.
- ⁴⁹ Steve Buskirk, *A History of Wildfires in Mount McKinley National Park and Adjacent Lands*, December 1976, Item 1189, DENA Resource Management Library (RML); January 1930, 2; December 1930, 2; January 1931, 3; November 1931, 3; March 1933, 2; February 1934, 2.
- ⁵⁰ Timothy Rawson is the acknowledged expert on this subject. In 1994, his M.A. thesis from the University of Alaska Fairbanks was entitled *Alaska's First Wolf Controversy: Predator and Prey in Mount McKinley National Park, 1930-1953*, and seven years later, an expanded version of this study was published through the University of Alaska Press as *Changing Tracks: Predators and Politics in Mt. McKinley National Park.* This section, and the section that follows, are a synopsis of the controversy; those interested in additional information may wish to consult one or both of Rawson's studies.
- ⁵¹ Rawson, Changing Tracks, 47-51.
- 52 Ibid., 51, 94, 99-100.
- 53 Ibid., 49-52.
- ⁵⁴ Ibid., 94-96, 100-01; Territory of Alaska, Session Laws, Resolutions, and Memorials, 1931, Chapter 117, p. 232; Calvin J. Lensink, "Predator Control with the Bounty System," in Alaska Fish and Game Commission and Alaska Department of Fish and Game, 1958 Annual Report, 94.

- ⁵⁵ "An Act to Protect the Birds and Animals in Yellowstone Park," in Dilsaver, ed., *American's National Park System*, 36-39; "Secretary Lane's Letter," in Dilsaver, ed., *America's National Park System*, 48, 50; Rawson, *Changing Tracks*, 58.
- ⁵⁶ Rawson, Changing Tracks, 59-60.
- 57 Ibid., 58-61.
- ⁵⁸ SMR, July 1922, 7; October 1922, 6; March 1926, 6; April 1926, 4; May 1927, 3; George M. Wright and Ben H. Thompson, *Fauna of the National Parks of the United States: Wildlife Management in the National Parks*, Fauna Series No. 2 (Washington, NPS, 1935), 72.
- ⁵⁹ Adolph Murie, "Wolf-Mountain Sheep Relationships in Mount McKinley National Park, Alaska 1946," in File 719 (Predatory Animals), Box 85, CCF, RG 79, NARA SB; SMR, September 1925, 2, 7; November 1925, 8; December 1925, 4, 6, 7. In December 1925, Karsten killed a wolf at headquarters (just east of the park boundary), and a Sanctuary-based park ranger shot twice at a wolf but missed.
- ⁶⁰ SMR, February 1928, 4; July 1928, 3; March 1929, 2; November 1929, 3.
- ⁶¹ Rawson, Changing Tracks, 52-56; SMR, July 1928, 3; August 1928, 4-5.
- ⁶² See, for example, the following SMR entries: June 1929, 5; July 1929, 4; June 1930, 4; July 1930, 4; August 1930, 4; November 1930, 3; April 1931, 3; June 1931, 3.
- ⁶³ Rawson, *Changing Tracks*, 84-85; SMR, March 1929, 3; April 1929, 1, 3; July 1929, 3; February 1932, 1, 4; March 1932, 2; April 1932, 3; and Newton B. Drury, *The Wolf Problem in Mount McKinley National Park*, January 4, 1946, in File 719 (Predatory Animals), Box 85, CCF, RG 79, NARA SB, notes that the two destructive winters were 1928-29 and 1931-32. But other sources—such as Charles A. Trundy to Alaska Game Commission, January 12, 1931, in File 719, Entry 7, RG 79, NARA CP; Rawson, *Changing Tracks*, 97; SMR, April 1931, 3; and SMR, November 1932, 3—suggest that the winters of 1929-30 and 1930-31 may have also been costly to park animals.
- ⁶⁴ Rawson, *Changing Tracks*, 61, 69-70; Albright, "The National Park Service's Policy on Predatory Animals,"
 Journal of Mammalogy 12 (May 1931), 185-86, reprinted in Dilsaver, *America's National Park System*, 87-88.
 ⁶⁵ Albright, "Our National Parks as Wild Life Sanctuaries," American Forests 35 (August 1929), 536; Sellars, *Preserving Nature in the National Parks*, 98.
- 66 Rawson, Changing Tracks, 70-71.
- ⁶⁷ SMR, May 1932, 2; August 1932, 3; Dixon, "Meeting the Wild Life of Denali," *American Forests* 38 (December 1932), 644-45, 672.
- ⁶⁸ Rawson, Changing Tracks, 67, 69, 150; Sellars, Preserving Nature in the National Parks, 94-99, 114-17; Joseph Dixon, Fauna of the National Parks of the United States: Birds and Mammals of Mount McKinley National Park, Alaska, Fauna Series No. 3 (Washington, GPO), 1938.
- ⁶⁹ SMR, June 1932, 3; July 1932, 3; Wright and Thompson, *Fauna of the National Parks*, Fauna Series No. 2, 71.
- ⁷⁰ SMR, March 1930, 2; December 1931, 3.
- ⁷¹ Rawson, *Changing Tracks*, 85, 118, 128, 196; March 1933, 3; September 1933, 4; June 1936, 5; September 1938, 4; October 1939, 4.
- ⁷² Rawson, *Changing Tracks*, 66-67, 71-72; SMR, September 1932, 4; May 1933, 2, 4; July 1933, 3; May 1934, 4; June 1934, 5.
- ⁷³ SMR, March 1935, addendum; Rawson, *Changing Tracks*, 45, 72. Cammerer, in his memo, also stated that "The control of coyotes is in force. Coyotes are an exotic specie and it is the desire of the Service to exterminate them if possible."
- House Joint Memorial No. 10, April 27, 1933, in Territory of Alaska, Session Laws, Resolutions, and Memorials, 1933, 307-08; Alaska Sportsman 1 (January 1935), 17; Rawson, Changing Tracks, 123, 126-29.
 SMR, April 1935, 2, 5; December 1935, 4; February 1936, 2; July 1936, 5-6; Rawson, Changing Tracks, 118. 128.
- ⁷⁶ Rawson, Changing Tracks, 131; SMR, September 1936, 5-6.
- ⁷⁷ SMR, April 1937, 3; June 1937, 2; July 1937, 5; April 1938, 4; June 1938, 5; July 1938, 5; August 1938, 5; September 1938, 4; October 1938, 4; Rawson, *Changing Tracks*, 150.
- ⁷⁸ Sellars, Preserving Nature in the National Parks, 120-23; Rawson, Changing Tracks, 148-51.
- ⁷⁹ Rawson, Changing Tracks, 151-52; Sellars, Preserving Nature in the National Parks, 122; SMR, April 1939, 2.
- 80 SMR, May 1939, 2; June 1939, 4; Rawson, Changing Tracks, 153-54.
- 81 Rawson, Changing Tracks, 152-55; SMR, September 1939, 5; October 1939, 2; November 1939, 5.
- 82 Rawson, Changing Tracks, 157; SMR, February 1940, 2; April 1940, 1, 4; May 1940, 2, 5.
- ⁸³ Rawson, *Changing Tracks*, 157-64; SMR, July 1940, 1; September 1940, 4; October 1940, 4, 5; May 1941, 3; July 1941, 4.
- ⁸⁴ Rawson, *Changing Tracks*, 161-62, 164, 182-84; Sellars, *Preserving Nature in the National Parks*, 122-23; Murie, *The Wolves of Mount McKinley*, Fauna Series No. 5 (Washington, GPO, 1944), 84-87, 95-128, 138-43.

- ⁸⁵ Rawson, *Changing Tracks*, 156, 159, 162-64; SMR, February 1940, 2; October 1940, 3; *Fairbanks Daily News-Miner*, November 7, 1938, 1, 5.
- 86 Rawson, Changing Tracks, 163, 173, 182-83; SMR, June 1941, 4; August 1942, 3; May 1944, 2.
- ⁸⁷ Rawson, *Changing Tracks*, 180; SMR, February 1945, 1; March 1945, 1; Senate Joint Memorial No. 5, March 15, 1945, in Territory of *Alaska, Session Laws, Resolutions, and Memorials*, 1945, 193-94.
- 88 Rawson, Changing Tracks, 180, 185-88; SMR, August 1945, 2; September 1945, 2.
- ⁸⁹ Franklin, *Adolph Murie*, 45, 48; Rawson, *Changing Tracks*, 195-99; Sellars, *Preserving Nature in the National Parks*, 159; SMR, August 1945, 2; NPS, "Advance Release," January 21, 1946, in DENA Box 1, HFC; "Reduce Wolf Population," *Nature Magazine* 39 (April 1946), 220. Murie's conclusions may have been politically expedient, and they also may have been a reflection of Pearson's observations taken several months earlier. See Pearson to RD/R4, April 11, 1945, in File 719, Box 82, CCF, RG 79, NARA SB.
- ⁹⁰ H.R. 5004, in *Congressional Record* 91 (December 14, 1945), 12101; H.R. 5401, in *Congressional Record* 92 (February 6, 1946), 1030; and S. 1999, in *Congressional Record* 92 (March 29, 1946), 2783; Rawson, *Changing Tracks*, 202.
- ⁹¹ Rawson, Changing Tracks, 201-06.
- 92 Ibid., 207; SMR, December 1945, 1; February 1946, 1, 3; March 1946, 3; April 1946, 4.
- ⁹³ Rawson, *Changing Tracks*, 207-17; S. 891, in *Congressional Record* 93 (March 14, 1947), 2054; H.R. 2863, in *Congressional Record* 93 (March 31, 1947), 2931.
- ⁹⁴ Rawson, *Changing Tracks*, 209; SMR, February 1948, 4; March 1948, 1, 3, 4; September 1948, 5; November 1948, 3. Linda Franklin, *Adolph Murie*, p. 50, notes that Murie was in charge of the park's wolf reduction effort. Park ranger William Nancarrow, who worked with Murie during this period, noted that "Ade knocked off a couple of wolves just so they wouldn't send Fish and Wildlife to start killing them. But they were old decrepit wolves." Louise Murie agreed; in a 1991 article, she noted that Adolph "never was propredator control, and if he recommended wolf control, it was because of political pressure and also so that he could have control of the effort." Tom Walker, "Crimson Tundra," *Alaska* 57 (May 1991), 27.
- 95 Rawson, Changing Tracks, 223-35; SMR, August 1948, 2, 4, 5.
- 96 Rawson, Changing Tracks, 236-38; SMR, February 1950, 1.
- ⁹⁷ SMR, March 1950, 2; April 1950, 3; January 1952, 5; March 1952, 2; April 1952, 2; Rawson, *Changing Tracks*, 242.
- 98 Rawson, Changing Tracks, 238, 242-43.
- ⁹⁹ *Ibid.*, 243-45. Herb Crisler later filmed considerable wolf footage for Walt Disney Productions, and his wife wrote a chronicle of their experience (*Arctic Wild*, New York, Harper and Brothers, 1958), but their field work took place on the north side of the Brooks Range. Bill Nancarrow, who served as the park naturalist during this period, states (according to an October 31, 2007 Jane Bryant interview) that "as far as he knew, they [the Crislers] never did any work in MOMC and there was no film produced that he was aware of."
- ¹⁰⁰ SMR, August 1927, 1, 3, 4; Frank Norris, "Sport Fishing in Early Alaska," in *Fisheries in Alaska's Past: A Symposium*, Alaska Historical Commission Studies in History No. 227 (Anchorage, 1986), 52.
- ¹⁰¹ NPS, Circular of General Information Regarding Mount McKinley National Park, Alaska (Washington, GPO, 1929), 11, 19.
- ¹⁰² John Kauffmann, *Mount McKinley National Park, Alaska; a History of its Establishment and Revision of Its Boundaries* (Washington, NPS, July 1954), 28.
- ¹⁰³ Grant Pearson, *My Life of High Adventure*, 48-49; Morgan Sherwood, "Polly's Denali," *Alaska History* 8 (Fall 1993), 38.
- ¹⁰⁴ SMR, August 1939, 2, 3; September 1939, 4. The Subcommittee on Alaskan Fisheries was part of the House Committee on Merchant Marine and Fisheries. The Bureau of Fisheries Study, by James L. Wilding, was entitled *A Partial Survey of Wonder Lake, Mt. McKinley National Park*, 1940; Item 1481 in DENA RML.
- ¹⁰⁵ SMR, July 1940, 2. Regarding the Morino roadhouse, a 1931 visitor noted that "with the completion of the railroad, and the building of Mt. McKinley Park cabins, there was no longer patronage for the roadhouse. But the beds were still made or unmade just as they were years ago." Either Maurice Morino or his nephew Joe ran the roadhouse (with an adjacent grocery store and post office) until Maurice died in March 1937. Maud Hosler then operated the grocery store and post office, along with several nearby cabins, for several years thereafter. Jean (Mrs. Lyman) Wear to Supt. DENA, July 18, 1986, in DENA Museum Collection; SMR, July 1939, photo caption.
- ¹⁰⁶ Norris, "Sport Fishing in Early Alaska," 45-46; *Federal Register* 1 (March 28, 1936), 69. The Bureau of Fisheries, at the time, did not consider Dolly Varden trout to be a game fish; the Alaska Legislature, in fact, appropriated funds "for the cleaning of salmon spawning streams and for the destruction of trout and other predatory enemies of the salmon" beginning in 1931. The bounty, which was specifically targeted at Dolly Varden trout, was removed in 1941 when it was discovered that many salmon tails were being passed off as trout. Territory of Alaska, *Session Laws, Resolutions, and Memorials*, 1931, Chapter 117, p. 232; Lensink, "Predator Control with the Bounty System," 91, 94-95.

- ¹⁰⁷ Federal Register 5 (June 6, 1940), 2140-41.
- 108 Federal Register 1 (June 27, 1936), 674.
- 109 Federal Register 5 (June 6, 1940), 2140.
- ¹¹⁰ Federal Register 6 (May 15, 1941), 2433; SMR, April 1941, 5; Been to Director NPS, April 16, 1941, in File 208-06 (Fishing, Hunting, Trapping), Box 1407, Entry 7, RG 79, NARA CP.
- 111 Norris, "Sport Fishing in Early Alaska," 45, 57; Sellars, Preserving Nature in the National Parks, 123-24.
- 112 Fairbanks Daily News-Miner, May 5, 1941, 4; Federal Register 6 (May 15, 1941), 2433.
- ¹¹³ This policy, which was "almost certainly" written by NPS biologist David Madsen, was a logical response to language contained in *Fauna No. 1*, which was published in 1933. Arno Cammerer, "Office Order No. 323, Fish Policy," April 13, 1936, in Lary M. Dilsaver, ed., *America's National Park System: The Critical Documents*, 149-50; Sellars, *Preserving Nature in the National Parks*, 124-25.
- ¹¹⁴ SMR, July 1940, 2. Park biologist Tom Meier (November 13, 2007 email) notes that rainbow trout are exotic to Denali.
- 115 SMR, May 1943, 2; June 1943, 2. Pearson's directive was apparently not issued as a federal regulation.
- 116 Public Law 78-106 (July 1, 1943), Sec. 2, as noted in U.S. Statutes at Large 57 (Chapter 183), 301-12.
- ¹¹⁷ SMR, July 1943, 2; Federal Register 8 (July 16, 1943), pp. 9842 (Sec. 91.5) and 9848 (Appendix A).
- ¹¹⁸ SMR, August 1943, 1; *Federal Register* 8 (August 24, 1943), 11692; Hillory Tolson to Supt. MOMC, July 20, 1943; Pearson to Director NPS, July 26, 1943; "Vetter" to Cahalane and Stevenson, August 21, 1943; all in File 208-06, noted above.
- 119 Public Law 78-106 (see above), Sections 3 and 10.
- ¹²⁰ Pearson to Director NPS, July 13, 1943; Tolson to Supt. MOMC, July 20, 1943; both in File 208-06, see above.
- ¹²¹ Code of Federal Regulations, Title 50, Chapter I, Sec. 91.2, in Federal Register 8 (July 16, 1943), 9842; Code of Federal Regulations, Title 36, Chapter I, Sec. 2.4, in 36 CFR, 1943 Cumulative Supplement, 9815.
- ¹²² Code of Federal Regulations, Title 50, Sec. 91.38, in Federal Register 8 (July 16, 1943), 9848.
- ¹²³ Federal Register 12 (August 28, 1947), 5779; Federal Register 13 (December 29, 1948), 8652.
- ¹²⁴ Been to Director NPS, June 20, 1948, in Box 1404 (MOMC), Entry 7, RG 79, NARA CP; SMR, July 1950, 6; April 1952, 3; May 1952, 3; Federal Register 17 (May 22, 1952), 4655.
- ¹²⁵ This regulation, located in Title 36 of the *Code of Federal Regulations*, was originally in Section 20.44. In December 1959, Interior Department officials moved this and other special park regulations to Section 7, and in June 1983, three years after ANILCA, they moved the two Denali-specific regulations remaining from Section 7.44 to Section 13.63. These are presently located in Part 13, Subpart L.
- 126 SMR, May 1949, 2; June 1966, 3.
- 127 SMR, June 1952, 6; August 1958, 4.
- ¹²⁸ SMR, June 1964, 5; July 1964, 7; February 1965, 4; June 1965, 3; June 1966, 3. An informal study of the dietary intake of the park's Dolly Varden trout had taken place during the spring of 1946, when "an examination of stomach contents indicated their feed at this time of the year is principally what appears to be fresh water shrimp." SMR, April 1946, 3.
- 129 SMR, various dates, 1945 through 1950; Franklin, Adolph Murie, 51, 122.
- ¹³⁰ Franklin, *Adolph Murie*, 51-56, 122; SMR, October 1950, 4; July 1951, 2. 1950; Hillory Tolson to RD/R4, October 17, 1952, in File 845 ("Research"), Entry 7, RG 79, NARA SB.
- 131 Franklin, Adolph Murie, 80-83.
- ¹³² Acting Director NPS to RD/R4, May 16, 1947; Been to RD/R4, December 13, 1948; both in File 700.01 (Nature Study, 1940-53), Box 82, CCF, RG 79, NARA SB.
- 133 SMR, June 1950, 2; July 1951, 2.
- ¹³⁴ Ade E. Jaskar to Alfred Kuehl, May 6, 1949, in File 600 (Alaska Development Programs, Part III), Box 237, CCF, RG 79, NARA SB; Henry B. Collins, ed., *Science in Alaska: Selected Papers of the [1950] Alaskan Science Conference of the National Academy of Sciences-National Research Council* (Washington, Arctic Institute of North America), 1952.
- ¹³⁵ SMR, September 1951, 1-2; September 1952, 1-2, 6; Kirk H. Stone, "Geographical Record," *Geographical Review* 42 (January 1952), 151.
- ¹³⁶ SMR, June 1955, 2; September 1957, 2; September 1958, 3. The annual Alaska Science Conference continued until 1983; after that time, it was called the Arctic Science Conference. It is still being held each fall. Since the 1950s, the only time the conference has met at the park was in September 1999.
- ¹³⁷ Key early USGS reports about the park area included Bulletin 314 (1907), Professional Paper 70 (1911), Bulletin 608 (1915), Bulletin 662-E (1916), Bulletin 687 (1919), Bulletin 755-C (1922), Bulletin 836-D (1930), and Bulletin 849-D (1931). See U.S. Department of the Interior, *List of U.S. Geological Survey Geologic and Water-Supply Reports and Maps for Alaska* (Washington?, the author), December 1986.
- 138 Hanna Glacier was James Wickersham's name for Peters Glacier.

- ¹³⁹ SMR, August 1932, 2; September 1934, 2, 5-6; September 1936, 2; August 1937, 3, 6; August 1939, 3; NPS, *Annual Report on Glaciers, MOMC* for 1935 and 1936 (TIC reports D-184/157 and 157-A, respectively). ¹⁴⁰ SMR, December 1939, 4; July 1940, 4; September 1941, 3; NPS, "Annual Report on Glaciers" for 1938-1940, TIC reports 184/157B through 184/157D.
- ¹⁴¹ SMR, April 1947, 4; May 1947, 2; A. E. Harrison, "Alaskan Glacier Surges," *Alaska Sportsman* 43 (July 1967), 14.
- ¹⁴² Anchorage Daily Times, August 15, 1953, 9; Grant Pearson, "An Alaskan Lake is Born," Alaska Sportsman 26 (February 1960), 28-29, 35; Jane Bryant email, October 9, 2007; Steve Carwile interview, December 4, 2007. U.S. Coast and Geodetic Survey contract pilot Knute Bergh, for whom the lake is named, had been killed in a nearby airplane crash just a month before the landslide.
- ¹⁴³ NPS, Mission 66 Prospectus, Mount McKinley National Park, April 1956, pp. 2-3, 3a, 49-50.
- ¹⁴⁴ USDI press release, April 21, 1956, in NPS/Box 1, Bartlett Collection, UAF; NPS, *Mission 66 Prospectus*, April 1956, 37-38.
- ¹⁴⁵ NPS, Mission 66 for Mount McKinley National Park, May 1957, 1, 5, 9, 10.
- ¹⁴⁶ Murie to Supt. MOMC, November 8, 1956, in Folder H14 ("Historical Notes, 1964-70"), Box 7, ARCC-00183 (DENA 00378), AKRO.
- ¹⁴⁷ SMR, January 1957, 3; July 1957, 3; August 1957, 5; September 1958, 3; August 1959, 6; June 1961, 7; April 1962, 3.
- 148 Franklin, Adolph Murie, 90-92; SMR, September 1965, 3.
- ¹⁴⁹ SMR, June 1959, 4-5; October 1959, 3; July 1960, 4; May 1961, 5; September 1961, 4; April 1962, 3; May 1963, 2-3; May 1964, 2; June 1964, 4; Franklin, *Adolph Murie*, 90.
- 150 SMR, August 1952, 7; January 1953, 2-3; July 1954, 4.
- ¹⁵¹ SMR; June 1957, 6; July 1957, 3-4; August 1957, 4; September 1957, 3; Harrison, "Alaskan Glacier Surges," 14-16, 50.
- ¹⁵² SMR, January 1958, 2; June 1958, 3; September 1960, 4; January 1961, 4.
- ¹⁵³ SMR, August 1959, 5; April 1961, 3; August 1961, 4; September 1961, 5; July 1962, 6. Davis, in all likelihood, was studying Scamman's spring beauty (*Claytonia scammaniana*) which, in North America, grows only in Alaska and the Yukon.
- 154 SMR, May 1963, 2; June 1964, 4; July 1964, 4-5.
- ¹⁵⁵ SMR, May 1946, photo caption; June 1946, 3; May 1947, 2.
- ¹⁵⁶ SMR, June 1948, 3, 5; August 1948, 4; September 1948, 5; November 1948, 3; June 1949, 3; July 1949, 5. Adolph Murie, in the early 1950s, noted that "the little frame building had an unhappy reputation" because of the bear attacks, perhaps because "huge paw marks, printed in mashed chocolate, still formed patterns on the floor, and perfect noseprints showed on window glass." Murie, "Wildlife of Mount McKinley National Park," 249, 251.
- ¹⁵⁷ SMR, July 1949, 2; September 1951, 2.
- 158 SMR, July 1949, 2; June 1951, 5.
- ¹⁵⁹ SMR, July 1948, 4; August 1948, 4; September 1948, 5; June 1955, 2; June 1956, 3.
- 160 SMR, July 1946, 3; September 1948, 5.
- ¹⁶¹ SMR, June 1949, 2; August 1949, 2. Kerry Gunther, with Yellowstone National Park's Bear Management Office, noted in an October 22, 2007 email that Mount McKinley's bear-trap design was not new; mobile culvert traps had been used at Yellowstone since 1945, if not before, and log-built live traps were in use prior to the 1920s.
- 162 SMR, May 1950, 1; June 1951, 5.
- ¹⁶³ Merriam to Supt. MOMC, September 19, 1951; Murie to Pearson, October 22, 1951; both in File 715.02 (Bears, 1941-53), Box 82, CCF, RG 79, NARA SB.
- ¹⁶⁴ SMR, November 1952, 4; December 1953, 4; July 1955, 5.
- ¹⁶⁵ SMR, July 1952, 2; August 1952, 6; September 1953, 5; July 1954, 4.
- 166 SMR, June 1930, 3. Also see the following SMRs: June 1931, 3; July 1931, 4; and June 1933, 3.
- ¹⁶⁷ SMR, July 1940, 4; August 1945, 2; June 1950, 1-2; July 1952, 3.
- ¹⁶⁸ SMR, July 1955, 2-3; February 1956, 2; Pearson to RD/R4, February 24, 1956, in File W42 (Special Regulations), Box 26, Accession Number 9NNS 79 87 006, NARA SB.
- ¹⁶⁹ Federal Register 21 (June 20, 1956), 4315-16; SMR, October 1959, 3; Warren E. Garst to Conrad Wirth, September 18, 1959, in File A3815 (Public Relations, 1958-60), Box 6, Accession Number 9NNS 79 90 002, NARA SB.
- ¹⁷⁰ Code of Federal Regulations, Title 36; 1982, p. 8 (Sec. 2.6) and 1983, p. 125 (Sec. 7.44); Federal Register 47 (March 17, 1982), 11612-13; Federal Register 48 (June 30, 1983), 30291-92, 30295.
- ¹⁷¹ SMR, June 1957, 6; Frederick C. Dean, interview by Jane Bryant and Frank Norris, April 14, 2005.
- ¹⁷² SMR, June 1958, 3; July 1958, 4; April 1959, 3; May 1959, 2, 4; June 1959, 5; April 1960, 4.
- ¹⁷³ SMR, November 1960, 3; January 1961, 3; February 1961, 4; August 1964, 4.

- ¹⁷⁴ SMR, June 1960, 6; August 1960, 6; September 1960, 4; July 1961, 7; August 1961, 7; September 1961, 2.
- 175 SMR, October 1963, 3; September 1965, 3.
- ¹⁷⁶ SMR, August 1961, 4; "From Ketchikan to Barrow," *Alaska Sportsman* 27 (October 1961), 28; NPS, *DENA Bear-Human Conflict Management Plan* (Denali Park, the author, June 2003), 123-24.
- ¹⁷⁷ SMR, September 1947, 3; July 1961, 7; June 1962, 7.
- 178 SMR, June 1951, 2; April 1952, 3; March 1965, 4.
- ¹⁷⁹ SMR, April 1946, 2; February 1949, 3; November 1949, 2; November 1951, 2; January 1952, 3; September 1957, 5.
- ¹⁸⁰ Sellars, Preserving Nature in the National Parks, 214-15.
- 181 Ibid., 215, 220.
- ¹⁸² NPS, Long Range Wildlife Management Plan for Mount McKinley National Park, March 1, 1965, in File N16, Resource Management Operating Papers, Box 2, Cabinet S-15, DENA Archives.
- 183 Franklin, Adolph Murie, 87-88, 90-92; SMR, July 1966, 6.
- ¹⁸⁴ In 1967, for example, Prasil invested considerable time in the national natural landmark program, and he also penned a report weighing whether Lake George should be considered as an NPS unit.
- ¹⁸⁵ SMR, September 1965, 1; December 1965, 2; June 1966, 2; March 1967, 1-3; April 1967, 1; Williss, "Do Things Right the First Time," 2005, 14, 17.
- ¹⁸⁶ Franklin, *Adolph Murie*, 91-92; NPS, *Long Range Wildlife Management Plan, Mount McKinley National Park*, January 14, 1970, 3, in File N16, Resource Management Operating Papers, Box 2, Cabinet S-15, DENA Archives.
- ¹⁸⁷ NPS, DENA Bear-Human Conflict Management Plan, 124.
- ¹⁸⁸ Richard G. Prasil, *Aerial Wolf Survey: March 1 to 11 and April 20 to 23, 1967* (McKinley Park, Alaska, NPS, 1967), Item 578, DENA RML; Gordon C. Haber, *The Social Structure and Behavior of an Alaskan Wolf Population* (Master's Thesis, Northern Michigan University), 1968, Item 40, DENA RML.
- ¹⁸⁹ See the following reports, all by Richard G. Prasil: *Aerial Wolf Survey, March 3-7 and April 29-May 2,* 1968 (McKinley Park, NPS), Item 579, RML; *Summary Report on Stone's Caribou Observations in Mount McKinley National Park,* 1967-1968 (NPS, Alaska Natural Resources Survey and Inventory Report), 1968; *Mount McKinley Caribou* (NPS, Alaska Natural Resources Survey and Inventory Report), 1968; *Grizzly Bear Observations, Mount McKinley National Park,* 1968; *Analysis of Wolf Caribou Situation Along the North Boundary of Mount McKinley National Park, Alaska*, unpublished report to Director PNRO, 1971.
- 190 NPS, Long Range Wildlife Management Plan, Mount McKinley National Park, 1970, 1, 3-5.
- ¹⁹¹ Diane Tracy, "Human-Wildlife Interactions Along Mt. McKinley Park Road," in Alaska Cooperative Park Studies Unit (CPSU), *Final Report: Fiscal Year 1975*, pp. T-1 to T-83. A more comprehensive report on Tracy's work is found in her 1977 UAF master's thesis, entitled *Reactions of Wildlife to Human Activity along Mount McKinley National Park Road*.
- ¹⁹² Alaska CPSU, *Final Report [for] Fiscal Year 1975* (pp. 8, 11-20), 1976 (pp. 9-10), 1978 (p. 8), 1979 (pp. 7-8), 1980 (pp. 7-8), and 1981 (pp. 6-7). The problem of bears at the park dump (which since 1964 had been located two miles southeast of the park hotel) was described by Harold R. "Chip" Downing in a 1975 study (see Supt. MOMC to State Director, Alaska, June 2, 1975, in MOMC Box 18, ATF Collection, RG 79, NARA ANC), and the park's response—to close the dump and replace it with a large holding container—is summarized in Chapter 8.
- ¹⁹³ See, for example, the following UAF master's theses: Richard Charles Chapman, *The Effects of Human Disturbance on Wolves (Canis lupus I.)* (1977) and Jim J. Stelmock, *Seasonal Activities and Habitat Use Patterns of Brown Bears in Denali National Park, 1980* (1981).
- ¹⁹⁴ Prasil, Richard G., *Wolf-Caribou Winter Range; Investigator's Annual Report*, 1973; SAR for 1974 (p. 4), 1975 (p. 4), and 1978 (p. 6). The Alaska Cooperative Wildlife Research Unit reported its results in a series of quarterly reports; see, for example, Rodney Boertje, *Range Ecology of the McKinley Caribou Herd; Quarterly Report*, July 1979, Item 480, DENA RML.
- 195 Steve Buskirk email, October 26, 2004.
- ¹⁹⁶ Van Horn, in 1998, became the park's wilderness program coordinator, part of the Ranger Division.
- ¹⁹⁷ The park's first *Bear-Human Conflict Management Plan*, published in 1984, defined an incident (p. B-2) as "when a bear causes injury, damage or behaves so that people feel threatened, such as if a bear approaches even if only curious." More recently, bear management officials have defined two terms to cover this behavior: "injury" and "incident." Therefore, the current (2003) *Bear-Human Conflict Management Plan* defines an incident (p. 39) more specifically as "any interaction during which a bear makes minimal physical contact with a human that does not result in injury." Over the years, rangers and visitors have had differing perceptions regarding what constitutes a bear incident; this was particularly true during the early-to-mid 1970s, before the park established its Bear Information Management System.

- ¹⁹⁸ John L. Dalle-Molle and Joseph C. Van Horn, "Bear-People Conflict Management in Denali National Park, Alaska," in *Bear-People Conflicts; Proceedings of a Symposium on Management Strategies* (Yellowknife, N.W.T. Department of Renewable Resources, 1987), 122; SARs for 1972 (p. 4), 1973 (p. 5), 1974 (p. 4), 1975 (p. 4), 1976 (p. 3), 1977 (p. 3), 1978 (p. 6), and 1980 (p.3).
- 199 SAR, 1972, 2; SAR, 1973, 5.
- ²⁰⁰ SAR, 1978, 4, 6; SAR, 1980, 3; Dalle-Molle and Van Horn, "Bear-People Conflict Management," 122; Joe Van Horn interview, October 24, 2007.
- ²⁰¹ Dalle-Molle and Van Horn, "Bear-People Conflict Management," 122; SARs for 1972 (p. 4), 1973 (p. 5), 1974 (p. 4), 1975 (p. 4), 1976 (p. 3), 1977 (p. 3), 1978 (p. 6), and 1980 (p. 3). Articles about hikers injured in the park appeared in the *Anchorage Daily Times*, July 24, 1972, 1, and July 27, 1977, 2 and *Anchorage Daily News*, July 24, 1972, 2; July 28, 1977, 2; June 12, 1980, A-3. The downside of bear feeding is illustrated in James Brickey and Catherine Brickey, "Only Two Gumdrops," *Alaska* 39 (June 1973), 33, 57, and Rick McIntyre, "A Cub Named Stony," *Alaska* 58 (May 1992), 31-33.
- ²⁰² SMR, May 1952, 6; June 1955, 2.
- ²⁰³ SAR for 1973 (pp. 5-6), 1974 (p. 4), 1975 (p. 4), 1976 (p. 3), 1977 (p. 3), 1978 (p. 6), and 1980 (p. 3).
- ²⁰⁴ SAR. 1976. 3: SAR. 1978. 6.
- ²⁰⁵ Proclamation 4616 (December 1, 1978), in Federal Register 43 (December 5, 1978), 57035-41.
- ²⁰⁶ Williss, "Do Things Right the First Time," revised edition, 139.
- ²⁰⁷ Public Law 96-487, Sec. 202(3)(a), in *U.S. Statutes at Large* 94 (1980), 2382-83. No mention was made of the Toklat River and its chum run, because this area had not been included in the expanded park unit.
- ²⁰⁸ NPS, *Draft Natural and Cultural Resource Management Plan and Environmental Assessment, DENA*, April 1982, pp. II-4 to II-13, Item 300, DENA RML. In 1986, an abbreviated form of the RMP was finalized; see Item 301, DENA RML.
- ²⁰⁹ NPS, Draft General Management Plan/Environmental Assessment, Land Protection Plan, Wilderness Suitability Review (Denver, the author, March 1985), 28.
- ²¹⁰ NPS, General Management Plan, Land Protection Plan, Wilderness Suitability Review (Denver, the author, November 1986), 49-57.
- ²¹¹ NPS, *Draft General Management Plan* (March 1985), 10, 13, 15, 185; NPS, *General Management Plan* (November 1986), 12-17, 229; Francis J. Singer and Joan B. Beattie, *Wildlife Viewing and the Mandatory Public Transportation System in Denali National Park*, Research and Resources Management Report AR-4 (draft), pp. 2-3, Item 1594, DENA RML. Dated March 1, 1984, it was listed as "in preparation" in both the draft and final GMPs.
- ²¹² Dalle-Molle and Van Horn, "Bear-People Conflict Management," 122-23.
- ²¹³ Ibid., 123-26; SAR, 1987, 2; NPS, *General Management Plan* (November 1986), 53, 55; *Anchorage Daily News*, March 22, 1986, B-1, B-3.
- ²¹⁴ NPS, General Management Plan (November 1986), 49.
- ²¹⁵ Wayne E. Heimer and Arthur C. Smith, *Ram Horn Growth and Population Quality: Their Significance to Dall Sheep Management in Alaska*, Project W-17-R, ADF&G Game Division, 1975, Item #1266, DENA RML; Bob Mauck, "When the Living is Easy," *National Wildlife* 24 (August-September 1986), 10-17.
- ²¹⁶ SAR, 1987, 2; Sherry Simpson, "Seeing Moose," Alaska 62 (October 1996), 24.
- ²¹⁷ Van Ballenberghe's moose studies in southcentral Alaska began in 1977. See *Anchorage Daily News*, August 1, 2004, D-1.
- ²¹⁸ SAR for 1984 (p. 2), 1986 (p. 2), 1987 (p. 2), 1989 (p. 2), and 1991 (p. 10); Susan L. Boudreau, *Long-Term Ecological Monitoring Program, Synthesis and Evolution of the Prototype for Monitoring Subarctic Parks: 1991 to 2002 Perspective* (Anchorage?, NPS, 2003), 135.
- ²¹⁹ SAR, 1986, 1-2; L. David Mech, "Stubborn Hunter in a Harsh Land," *National Wildlife* 27 (August-September 1989), 20-24; Mech, et al., *The Wolves of Denali* (Minneapolis, University of Minnesota Press), 1998.
- ²²⁰ SAR, 1991, 10; Anchorage Daily News, July 21, 1995, B-1 and September 15, 1996, M-1.
- ²²¹ Park records and scientific contributions suggest that Mech, assisted by Layne Adams, continued his work until 1993, when Adams became the principal investigator, and Keay continued until 2001. Since that time, Adams has continued his research on both caribou and wolf populations. Adams, an Alaska Regional Office (NPS) employee, and Keay, a park employee, were transferred to a new DOI agency, the National Biological Survey, and in late 1996 this agency became the Biological Resources Division within the U.S. Geological Survey.
- ²²² SAR for 1986 (p. 2), 1988 (p. 2), 1995 (p. 5), 1996 (p. 10), and 2002 (p. 4).
- ²²³ SAR for 1984 (p. 2), 1987 (p. 2), and 1988 (p. 2); Boudreau, Long-Term Ecological Monitoring, 156.
- ²²⁴ SAR for 1995 (p. 6), 1996 (p. 10), and 2002 (p. 5); Boudreau, Long-Term Ecological Monitoring, 172.
- ²²⁵ SMR, December 1966, 2; *Anchorage Daily News*, December 6, 1988, G-3; Carol McIntyre email, October 30, 2007.

- ²²⁶ SAR for 1996 (p. 10), 2002 (p, 4), and 2003 (p. 25); Boudreau, Long-Term Ecological Monitoring, 143-54.
- ²²⁷ SAR, 1978, 6; Alaska CPSU, Final Report, 1979, 7; SAR, 1987, 3; SAR, 1988, 2.
- ²²⁸ SAR for 1991 (p. 11) and 1998 (p. 3); Boudreau, Long-Term Ecological Monitoring, 99-108.
- ²²⁹ SAR, 1991, 9-10; Boudreau, Long Term Ecological Monitoring Program, 9-10.
- ²³⁰ Boudreau, Long Term Ecological Monitoring Program, 32-202, passim.; NPS, Long-Term Ecological Monitoring Program, Annual Administrative Report, Fiscal Year 1997, 1, 3-4, 12-13.
- ²³¹ Boudreau, Long Term Ecological Monitoring Program, 12, 20-21.
- ²³² Ibid., 20-27; Maggie MacCluskie and Karen Oakley, *Central Alaska Network Vital Signs Monitoring Plan* (Fort Collins, Colo., NPS Office of Inventory, Monitoring, and Evaluation, September 2005), 164-67.
- ²³³ SAR for 1980 (p. 4), 1987 (p. 2), 1998 (p. 3), 2002 (p. 2), and 2003 (p. 29); NPS, Long-Term Ecological Monitoring Program, Annual Administrative Report, Fiscal Year 1997, 3.
- ²³⁴ For structural fires, see SMR, March 1931, 3; May 1934, 5; January 1938, 4; October 1939, 1, 5; November 1950, 2-3. For locomotive fires, see SMR, June 1941, 5; May 1942, 2; June 1944, 2; June 1950, 4; February 1951, 2.
- ²³⁵ Buskirk, A History of Wildfires in Mount McKinley National Park and Adjacent Lands, December 1976. The potential for fire in the park changed dramatically in December 1978; whereas fire was a minor factor in "old park" management, much of the acreage added to the park—particularly those areas north and west of the "old park" boundaries—had a high fire potential.
- ²³⁶ Hal K. Rothman, A Test of Adversity and Strength; Wildland Fire in the National Park System (n.p., NPS, 2005), 152, 174-76; SAR for 1980 (p. 4) and 1982 (p. 3); Dan Warthin interview, October 24, 2007; Anchorage Daily Times, July 7, 1982, A-3; Alaska Interagency Fire Management Plan, Tananal Minchumina Planning Area (March 1982), 55-65, Appendix E.
- ²³⁷ Rothman, *A Test of Adversity and Strength*, 177-79; Dan Warthin email, October 25, 2007. NPS officials, while insisting on the right to prescribe fires, have never employed the technique at Denali, primarily because fires in the park have not historically been subject to major suppression efforts.
- ²³⁸ Joe Van Horn interview, October 24, 2007.
- ²³⁹ Rothman, *A Test of Adversity and Strength*, 164-65; Joe Van Horn interview, October 24, 2007; SAR for 1983 (p. 2), 1991(p. 11), and 2003 (p. 23).
- ²⁴⁰ Dan Warthin email, October 25, 2007; *Alaska Interagency Wildland Fire Management Plan*, October 1998; NPS, *Fire Management Plan*, DENA, October 29, 2004. Both documents are located in the Alaska Fire Management Officer's files, AKRO.
- ²⁴¹ Sellars, Preserving Nature in the National Parks, 81, 98, 110.
- ²⁴² Frank T. Been to RD/R4, November 8, 1948; L.F. Cook to RD/R4, November 22, 1948; Grant Pearson to RD/R4, June 9, 1950; all in File 701 (Flora), Box 82, CCF, RG 79, NARA SB; Carl Roland email, October 31, 2007.

 ²⁴³ Sellars, *Preserving Nature in the National Parks*, 258, 353.
- ²⁴⁴ "Wanted: Denali Dandelion Hunters!" Alaska Magazine 64 (December 1998/January 1999), 14; "Update," Alaska Magazine 64 (March 1999), 17; Anchorage Daily News, June 14, 2006, G-1.
- ²⁴⁵ SAR for 2002 (p. 1), 2003 (p. 22), and 2004 (p.17); *Anchorage Daily News*, August 11, 2002, G-1; *AK2Day* (AKRO electronic newsletter), July 23-24, 2003; *Anchorage Daily News*, June 14, 2006, G-1.
- ²⁴⁶ Jane Lakeman email, October 25, 2007; Phil Brease review comments, November 20, 2007 regarding the park's paleontological resources.
- ²⁴⁷ Anchorage Daily News, July 6, 2005, B-1, B-4; May 24, 2006, G-1, G-10; AK2Day, May 19, 2006. SAR, 2002, p. 3, states that there were 276 "paleontological localities" in the park unit in fiscal year 2000. ²⁴⁸ Jane Lakeman email, October 25, 2007.
- ²⁴⁹ SAR, 1989, 2; SAR, 2003, 24; Pat Owen email, December 7, 2007. Dale L. Taylor, Kenneth D. Vogt, and Janet Warburton, *A System for Monitoring Impact of Denali National Park Road Traffic on Wildlife*, 1997, Item 897, DENA RML.
- ²⁵⁰ Karen Fortier, Chuck Tomkiewicz, and Gordon Olson, *Park Road Use/Wildlife Interaction Monitoring, A Pilot Effort, 1995* (1996), Item 840, DENA RML; Judy A. Putera and Jeffrey A. Keay, *Effect of Vehicle Traffic on Dall Sheep Migration in Denali National Park*, annual reports for 1995 (Item 837), 1996 (Item 655), and 1997 (Item 1196), DENA RML.
- ²⁵¹ SAR, 2005, 14; SAR, 2006, 1, 3, 17; Laura Phillips, *An Integrated Study of Park Road Capacity* [online brochure], Summer 2007, at http://www.nps.gov/dena/naturescience/upload/Roadcapacity07Su.pdf.
- ²⁵² New York Sun, January 24, 1897, 6; Robert Muldrow, "Mount McKinley," National Geographic Magazine 12 (August 1901), 312-13.
- ²⁵³ Alfred H. Brooks, *The Mount McKinley Region, Alaska*, USGS Professional Paper 70 (Washington, GPO, 1911), 32-33.
- ²⁵⁴ Michael Sfraga, *Bradford Washburn, A Life of Exploration* (Corvallis, Oregon State Univ. Press, 2004), 160-61, 181-83; *New York Times*, August 14, 1956, 2; *Seattle Times*, July 30, 1989, A-8.

- ²⁵⁵ Anchorage Daily Times, April 20, 1964, 8; July 16, 1968, 13; Clyde Wahrhaftig, "Quaternary Geology of the Nenana River Valley and Adjacent Parts of the Alaska Range," in *Quaternary and Engineering Geology in the Central Part of the Alaska Range*, U.S. Geological Survey Professional Paper 293 (Washington, GPO, 1958), 6; *New York Times*, July 16, 1977, A-16.
- ²⁵⁶ New York Times, July 16, 1977, A-16; Anchorage Times, July 18, 1977, 43; Anchorage Daily News, July 21, 1977, 2; Seattle Times, July 30, 1989, A-8; Steve Carwile interview, October 24, 2007.
- ²⁵⁷ "Have Slide Rule, Will Climb," *U.S. News and World Report* 106 (June 12, 1989), 14; *Seattle Times*, July 30, 1989, A-8; NPS, *Mountaineering Report*, DENA, 1989, 3; SAR, 1990, 3; *Anchorage Daily News*, July 3, 1991, B-11; Greg Durocher (USGS) interview, November 15, 2007.
- ²⁵⁸ SMR, October 1932, 1; July 1933, 1; July 1935, 2.
- ²⁵⁹ SMR, June 1941, 2; Adolph Murie, "The Wilds Where the Caribou Roam," *Audubon Magazine* 44 (January-February 1942), 3.
- ²⁶⁰ William L. Bowen to Supt. MOMC, January 8, 1969, in "Correspondence, 1952-73" file, DENA Files, WASO History Division; Wayne Merry to Supt. MOMC, January 28, 1969, in "D22, Construction thru ..." File, Box 1, Collection 00495, DENA Archives.
- ²⁶¹ SMR, October 1941, 3; July 1942, 2; June 1943, 2; February 1948, 4; July 1950, 3.
- ²⁶² SMR, May 1951, 2; March 1952, 1; October 1952, 1; Wirth to Pearson, June 10, 1954, and Herbert E. Kahler to RD/R4, August 26, 1954, both in "Correspondence, 1952-73," DENA Files, WASO History Division. ²⁶³ SMR, March 1951, 5; June 1951, 3, 5; July 1951, 3. The plaque read "In memory of Charles Sheldon, 1967-1928, Conservationist-Author-Explorer".
- ²⁶⁴ SMR, January 1934, 2; July 1952, 2. As Horace Albright noted in *The Birth of the National Park Service;* the Founding Years (p. 249), similar plaques—sponsored by the ad hoc The Stephen T. Mather Appreciation—were installed in the years following Mather's January 1930 death in various "parks and monuments especially dear to the late Director." See U.S. Interior Department, *Annual Report* for 1932 (pp. 106-07) and 1933 (p. 158).
- ²⁶⁵ SMR, September 1923, 3; September 1925, 6; July 1958, 3. In the early 1990s, park staff removed the Sheldon and Karstens plaques from the rock wall, placed them on pedestals, and installed them on the west side of the Toklat River bridge.
- ²⁶⁶ Ivan Skarland to John Hussey, March 23, 1959, in "Correspondence 1952-73" DENA file, WASO History Division; SMR, June 1959, 2.
- ²⁶⁷ Kristen Griffin, *An Overview and Assessment of Archeological Resources, DENA, Alaska*, NPS Research/Resources Management Report AR-16 (Anchorage, NPS, September 1990), 62-63; SMR, September 1960, 2, 3; January 1961, 3; May 1961, 5; June 1961, 7; July 1961, 6; August 1961, 6-7; SAR, 1965, 2; Frederick H. West, "Teklanika West," in West, ed., *American Beginnings: The Prehistory and Palaeoecology of Beringia* (Chicago, University of Chicago Press, 1996), 332-43.
- ²⁶⁸ SMR, June 1963, 3; SAR, 1965, 2; Griffin, *Overview and Assessment*, 63; H. Morris Morgan, *An Archeological Survey of Mount McKinley National Park*, May 1965, 10, in AKRO-RCR files; *Anchorage Daily Times*, November 27, 1963, 14.
- ²⁶⁹ SMR, June 1964, 3, 7; Griffin, *Overview and Assessment*, 63-65; Warren F. Hamilton to William R. Wood, December 17, 1964, in "Correspondence 1952-73" DENA file, WASO History Division.
- ²⁷⁰ SMR, October 1966, 2; Roy Appleman to Chief Historian, February 28, 1968, in "Correspondence 1952-73," DENA files, WASO History Division; NPS, *Historic Structures Report, Part I, Toklat Patrol Cabin Complex, Building Number 4 and Supporting Structures* (San Francisco, Western Service Center, June 1970), 5, 17; SAR for 1973 (p. 6), and 1975 (p. 6).
- ²⁷¹ SAR, 1976, p. 5. A historic furnishings report for the cabin was completed in 1995.
- ²⁷² Griffin, Overview and Assessment, 65; NPS, National Survey of Historic Sites and Buildings, Theme XXI, Political and Military Affairs, 1865-1910, Special Study, Alaska History, 1741-1910 (1961), a-b, 222; NPS, National Survey of Historic Sites and Buildings, Theme XVI, Indigenous Peoples and Cultures, Special Study, Alaska Aboriginal Culture (1962), d-e, 171; NPS, et al., National Register of Historic Places, 1966 to 1994 (Washington, Preservation Press, 1994), 21.
- ²⁷³ Griffin, Overview and Assessment, 65-66; NPS, Draft Natural and Cultural Resource Management Plan and Environmental Assessment, DENA, April 1982, projects C-1 and C-2. Ernest J. Borgman, of the Alaska Field Office, first broached the idea of an administrative history in November 1969. No funding for such a project was provided in either 1969 or 1982. In the late 1990s, however, two years of funding was provided to a contractor, the results of which preceded the present effort.
- ²⁷⁴ SAR, 1986, 3; SAR, 1987, 3; NPS, *National Register of Historic Places*, 21; NPS, *Division of Cultural Resources*, 1981-1986, Alaska Regional Office (Anchorage, NPS, 1987), 81; David E. Snow, *Design Guidelines*, *Mt. McKinley Park Headquarters Historic District* (Anchorage?, NPS), June 1, 1985. The Savage River patrol cabin, which was built in 1924, moved in 1940, and "improved" during World War II (see Chapter 5), was declared ineligible for the National Register because it "no longer appears to be able to reflect its historic

associations with the history of early patrol cabins" in the park. This cabin was restored in 1987; it was initially used as an employee residence, but beginning in 1995 it was used for interpretive programs (see Chapter 11). Bill Bushong review comments, November 25, 1986, in "Correspondence 1975-on" DENA file, WASO History Division; SAR, 1987, 3; SAR, 1995, 5; Marisa James email, October 31, 2007.

- ²⁷⁵ Dave Snow, et al., *Historic Structure Report, Mt. McKinley Park Headquarters Historic District and Wonder Lake* (Anchorage?, NPS), January 1, 1987; SAR, 1987, 6; William E. Brown, *A History of the Denali-Mount McKinley Region, Alaska* (Santa Fe, NPS), 1991; Brown, *Denali, Symbol of the Alaskan Wild* (Denali National Park, ANHA), 1993; NPS, *Division of Cultural Resources*, 81.
- ²⁷⁶ Griffin, Overview and Assessment, 66-67.
- ²⁷⁷ Steve Peterson interview, October 26, 2007; SAR for 1993 (p. 7), 2002 (p. 2), and 2003 (pp. 15, 17). ²⁷⁸ Mary Tidlow interview, October 30, 2007.
- ²⁷⁹ NPS, "Backcountry Patrol Report" (Case Incident Number 920008), June 25, 1992; Faulkner to Supt. DENA, December 23, 1992; Ted Birkedal to Supt. DENA, March 16, 1993 (Survey 016-92-DENA), and Gary Somers to Supt. DENA, October 20, 1993 (Survey 005-93-DENA); all in XXX File ARO-92-114, in NPS *Archeological Compliance/Inventory, DENA Book 2, 1991-1995*, AKRO-RCR Collection; "1993 Sierra Club Outings, Alaska and Arctic Canada," *Sierra* 78 (January-February 1993), 73.
- ²⁸⁰ Amy Craver, email to Clarence Summers, November 14, 2007. The initial (May 1984) SRC members were Florence Collins, Ray Collins, Lynn Castle (McKinley Park), Percy Duyck (Nenana), Ruby John (Cantwell), Nick Dennis (Nikolai), Roberta Sheldon (Talkeetna), and Ken Charlie (Minto).
- ²⁸¹ Richard H. Bishop, *Subsistence Resource Use in the Proposed North Addition to Mt. McKinley National Park*, Occasional Paper No. 17 (Fairbanks, Anthropology and Historic Preservation, Cooperative Park Studies Unit, December 1978), 106-07. The nearly-identical December 1977 version is located in the AKRO-RCR files. ²⁸² Dianne Gudgel-Holmes, *Ethnohistory of Four Interior Alaskan Waterbodies* (Anchorage, Alaska Department of Natural Resources), August 1979; William Schneider, Dianne Gudgel-Holmes, and John Dalle-Molle, *Land Use in the North Addition of Denali National Park and Preserve: An Historical Perspective*, NPS Alaska Region, Research/Resources Management Report AR-9 (Anchorage, NPS), 1984. The 1979 study also investigated the Nowitna drainage, northwest of the park unit.
- ²⁸³ Norris, Alaska Subsistence, 144-45, 209-11.
- ²⁸⁴ Dianne Gudgel-Holmes, *Kantishna Oral History Project: Phrase II, Part I, Interviews with Native Elders*, draft (Anchorage, NPS), September 1988; Dianne Gudgel-Holmes, *Native Place Names of the Kantishna Drainage*, *Alaska, Kantishna Oral History Project* (Anchorage, NPS), 1991.
- ²⁸⁵ Darryll R. Johnson, Dianne Gudgel-Holmes, and James Levy, *Traditional Use of Cabins and Other Shelters in the North Additions to Denali National Park and Preserve: Ethno-Historical Context and Background, Ownership and Transfer Norms, and the Choice of Cabins or Tents as Winter Trapline Shelters (Seattle, University of Washington)*, 1999; James Kari, *Native Place Names Mapping in Denali National Park and Preserve*, December 1999.
- ²⁸⁶ Raymond L. Collins, *Dichinanek' Hwt'ana: A History of the People of the Upper Kuskokwim Who Live in Nikolai and Telida* (McGrath, the author), September 2000, revised January 2004; Brenda Rebne, *Cantwell Native Village History* (Cantwell, the author), December 2000; Minchumina Community School, *Lake Minchumina: Past and Present*, 2000; Tanana Tribal Council, *A Short History of the Native Village of Tanana*, 2000; Terry Haynes, David B. Andersen, and William E. Simeone, *Denali National Park and Preserve: Ethnographic Overview and Assessment* (Fairbanks, ADF&G Division of Subsistence), February 2001.

 ²⁸⁷ Norris, *Alaska Subsistence*, 184, 233, 278.



Chapter Thirteen: A Century of Mountaineering

Early History of Alaska Range Climbs

As noted in Chapter 1, local residents were familiar with Mount McKinley-its beauty, its predominance, and its majesty—for thousands of years before non-Native visitors began to filter into the area. Non-Native visitors, in turn, spent 150 years gazing at the mountain from afar before they ever made a closer inspection. The mountain did not acquire its present, geographically-accepted name until 1897, and for the next twenty years almost everyone who visited the immediate vicinity of the massif did so in search of exploration or climbing, not for its wildlife.

In 1902, the Alfred H. Brooks expedition made Wall," a 10,000-foot-high, near-vertical mass

Although Charles Sheldon's two trips to the countryside north of the Alaska Range-an initial 1906 foray, with another in 1907-08—were key to the area's eventual inclusion in a national park, most of those who ventured to this area were climbers who hoped to summit the highest point in North America. In 1906, Frederick Cook returned to the area as part of a four-man party; after an initial unsuccessful attempt, he tried again with just one companion, Robert Barrill. Upon returning home, Cook told others that he had surmounted the peak, though others were dubious of his achievement. Four years later, two of Cook's previous climbing companions returned to the mountain and debunked Cook's claim.

That same year, four Fairbanks "sourdoughs," all of whom had been Kantishna-area miners, made a new attempt on the mountain. Together, they hauled a 14-foot-long spruce pole up the slopes of Mount McKinley, and two in their party— Billy Taylor and Pete Anderson—planted the pole near the summit of 19,470-foot North Peak, where it could be plainly seen from Fairbanks. In 1912, a new assault on the mountain began when Belmore Browne and two others ascended to within 200 yards of Mount McKinley's South Peak (elevation 20,320) before twice being driven back by a snow-driven gale.

Hoping for better luck, a four-man party headed by Archdeacon Hudson Stuck (the group's organizer) and Harry Karstens (the climb leader)

an eastbound traverse across the high valleys north of the Alaska Range and made a brief, onthe-spot, and ultimately unsuccessful attempt to climb Mount McKinley. But the first serious attempt to climb the mountain began the following May, when a four-man party headed by James A. Wickersham left Fairbanks and headed down the Chena River on the steamer Tanana Chief (see Chapter 2). They ascended the Kantishna River, then hiked south to Peters Glacier and Jeffrey Glacier (both of which were just south of Jeffrey Dome) before they were turned back at what would later be named the "Wickersham near Peters Dome. A few weeks later, an 18-man party led by Dr. Frederick Cook approached the mountain. Cook, like Wickersham, attempted to climb McKinley via Peters Glacier but was unable to ascend beyond the glacier.1



Archdeacon Henry Stuck, left, is pictured here at their Clearwater Creek camp with Harry Karstens, his carefully selected colleague for the climb of Mt. McKinley in 1913. This party approached the great mountain from the north, transporting supplies as close to the mountain as possible by navigable rivers during open water, and then travelling overland by dog team. Hudson Stuck, The Ascent of Denali

All of the early attempts to climb Mt.

approach to reach the geographically remote mountain before the

actual climbing commenced. This

photograph shows the 1912 Belmore Browne expedition on their dog team

approach from Seward to and across

the Alaska Range to reach the north side of Mt. McKinley, where their

climb began. Merl La Voy Photo, from

Belmore Browne, The Conquest of Mt.

McKinley

McKinley involved a long and difficult

Figure 3. Mount McKinley (South Peak) Climbing Statistics, 1913 to Present

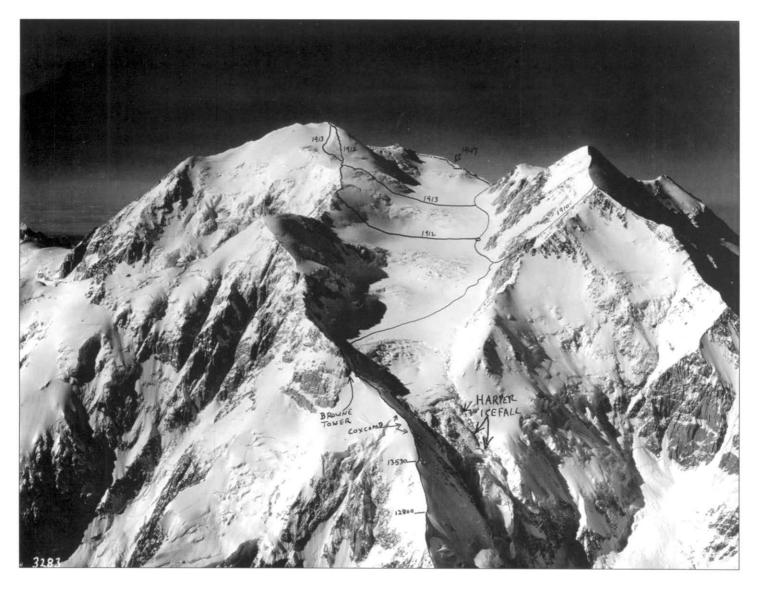
| | # of | # of sum- | % suc- | # of | | # of | # of | % suc- | |
|------|----------|--------------|--------|--------|------|----------|--------------|--------------|-------|
| Year | attempts | | ful | deaths | Year | attempts | sum- mits | cess- ful | # dea |
| 1913 | 4 | 4 | 100 | 0 | 1975 | 362 | 131 | 36 | |
| | | | | | 1976 | 508 | 339 | 67 | |
| 1932 | 9 | 4 | 44 | 2 | 1977 | 360 | 284 | 79 | |
| | | | | | 1978 | 459 | 270 | 59 | |
| 1942 | 8 | 7 | 88 | 0 | 1979 | 533 | 351 | 66 | |
| | | | | | 1980 | 659 | 283 | 43 | |
| 1947 | 14 | 10 | 71 | 0 | 1981 | 612 | 321 | 52 | |
| 1948 | 3 | 3 | 100 | 0 | 1982 | 696 | 310 | 45 | |
| | | | | | 1983 | 709 | 474 | 67 | |
| 1951 | 8 | 8 | 100 | 0 | 1984 | 695 | 324 | 47 | |
| 1952 | 29 | 10 | 34 | 0 | 1985 | 645 | 321 | 50 | |
| 1953 | 9 | 3 | 33 | 0 | 1986 | 755 | 406 | 54 | |
| 1954 | 13 | 13 | 100 | 1 | 1987 | 817 | 251 | 31 | |
| 1955 | 4 | 0 | 0 | 0 | 1988 | 916 | 551 | 60 | |
| 1956 | 18 | 0 | 0 | 0 | 1989 | 1,009 | 517 | 51 | |
| 1957 | 8 | 0 | 0 | 0 | 1990 | 998 | 573 | 57 | |
| 1958 | 12 | 10 | 83 | 0 | 1991 | 935 | 557 | 60 | |
| 1959 | 8 | 4 | 50 | 0 | 1992 | 1,070 | 515 | 48 | |
| 1960 | 24 | 23 | 96 | 0 | 1993 | 1,108 | 670 | 60 | |
| 1961 | 31 | 20 | 65 | 0 | 1994 | 1,277 | 702 | 55 | |
| 1962 | 40 | 25 | 63 | 0 | 1995 | 1,220 | 523 | 43 | |
| 1963 | 50 | 29 | 58 | 0 | 1996 | 1,148 | 489 | 43 | |
| 1964 | 37 | 25 | 68 | 0 | 1997 | 1,110 | 561 | 51 | |
| 1965 | 31 | 3 | 10 | 0 | 1998 | 1,166 | 420 | 36 | |
| 1966 | 22 | 7 | 32 | 0 | 1999 | 1,183 | 508 | 43 | |
| 1967 | 83 | 63 | 76 | 8 | 2000 | 1,209 | 630 | 52 | |
| 1968 | 40 | 30 | 75 | 0 | 2001 | 1,305 | 772 | 59 | |
| 1969 | 71 | 49 | 69 | 1 | 2002 | 1,232 | 645 | 52 | |
| 1970 | 124 | 72 | 58 | 2 | 2003 | 1,179 | 688 | 58 | |
| 1971 | 163 | 48 | 29 | 2 | 2004 | 1,275 | 656 | 51 | |
| 1972 | 181 | 80 | 44 | 3 | 2005 | 1,340 | 775 | 58 | |
| 1973 | 203 | 108 | 53 | 0 | 2006 | 1,152 | 581 | 50 | |
| 1974 | 282 | 139 | 49 | 2 | 2007 | 1,218 | 573 | 47 | |

Source: NPS, "Mount McKinley South Peak (20,320 feet) Attempts and Summits," and NPS, "Climbing Deaths on Denali," both in Talkeetna Ranger Station files, courtesy Roger Robinson and Daryl Miller.

left Fairbanks in mid-March 1913. Together with two younger compatriots, Walter Harper and Robert Tatum, Stuck and Karstens headed up the Kantishna and Bearpaw rivers, then struck out over the snow on routes that two previous climbing parties had assayed. After arriving at McGonagall Pass, the group ascended the Muldrow Glacier, again following in the footsteps of earlier climbers. Despite additional difficulties brought on by the effects of a June 1912 earthquake, the four men inched up Harper Glacier to Karstens Ridge.² Shortly after noon on June 7, 1913, Harper—followed

soon afterward by Karstens, Tatum, and an exhausted Stuck—reached the top of the South Peak of Mount McKinley. After almost three months of work and tedium, victory was theirs. Within two weeks, the party had safely returned to civilization.³ Given their successful expedition, no further attempts were made to climb the mountain for another nineteen years (see Figure 3).

During the year-long period of debate that preceded the establishment of Mount McKinley National Park, both the Interior Department



Bradford Washburn traced the early climbing routes of the upper portion of Mt. McKinley on this aerial photograph of the mountain taken from the northeast. ©Bradford Washburn, courtesy Panopticon Gallery, Boston, MA

and the U.S. Congress made several references to the peak. In a May 1916 Senate hearing, for instance, the Committee on Territories noted that:

Mount McKinley is not only the highest mountain in North America, but is most unique in its conformation. It reaches in altitude 20,300 feet. While this mountain is remarkable by reason of its extraordinary height, it is unique through the fact that it rises almost abruptly from the foothills and plains surrounding its base, which only have an altitude of two or three thousand feet. ... This mountain is covered by perpetual snow for a distance of about 18,000 feet below the summit. It is studded with many large glaciers, and its sides are cut with torrential mountain streams.

In the parlance of a later generation, the area immediately surrounding Mount McKinley

consisted of "rocks and ice," and preserving this expanse was entirely consistent with the "worthless lands" thesis that was an undercurrent of so many of the early national parks. For this reason, no one in a position of executive or legislative authority expressed any particular opposition to including the mountain massif in a proposed national park. And the fact that the new park would be named for the great peak doubtless helped assure the bill's success in the legislature. Executive and legislative officials, therefore, concentrated their debates and discussions on game conditions, budgetary matters, and other aspects of the proposed Mount McKinley National Park. And according to Congress, nothing about the mountain itself was noted among any of the principal reasons delineated for the park's establishment.4

Climbing Expeditions in 1932

As noted in Chapter 3, the first park superintendent – indeed, the only park employee for more than six months – was Harry Karstens, a Klondike gold rush veteran who led the first party up



Alfred Lindley, Erling Strom, Harry Liek and Grant Pearson (left to right) made up the 1932 McKinley expedition that was the first to reach the summit of both the south and north peaks. This group utilized dog teams to transport their supplies up to the 11,000 foot level of the Muldrow Glacier. Strom, a ski enthusiast, and his teammates pioneered the use of skis on the climb. DENA 3848, Denali National Park and Preserve Museum Collection

Mount McKinley. The fact that he had climbed the pre-eminent feature in the park gave him considerable credibility to Alaska residents, and the story he gave of his 1913 exploit provided such great entertainment to Outside tourists that he recounted the details of his climb numerous times to park visitors.⁵

In September 1928 Karstens resigned, to be replaced soon afterward by Harry J. Liek. The former assistant chief ranger for Yellowstone National Park, Liek had a sinewy, ramrodstraight profile. But during the winter of 1929-30, NPS Director Horace Albright began to criticize him for, among other things, spending too much time on construction work rather than on patrol. By early 1931, Albright further noted that

I hear nothing particularly adverse [about your job performance] just as I find no particular interest in you or enthusiasm for you ... you are doing nothing outstanding and ... you are really spending a good deal of time at headquarters instead of moving about the park studying its problems....

A month later, an angry Liek responded point by point to Albright's numerous criticisms. He did, however, agree that he had made little headway with Alaska public opinion because "Alaska people do not visit the park like the people in the states do." And he further averred that "Right now it would be hard for a person to do anything conspicuous here unless it was to climb Mt. McKinley."

Just a few months later, the wheels were set in motion for Liek to do just that. In the spring of 1931, Erling Strom (a Norwegian outdoorsman) and Alfred Lindley (a Minneapolis attorney) met and discussed the idea of a Mt. McKinley climb. That summer Lindley went to Alaska and visited the park; when Liek heard of their plans, he told them "if the Park Service is in on the climb, you can use park dogs to haul supplies free of charge." Liek, thus accepted, then convinced the two organizers to bring park ranger Grant Pearson along as well. On April 4, 1932, the party headed west from headquarters, and six weeks later it achieved what had never been done before. The foursome climbed both of McKinley's summits: South Peak on May 8 and North Peak a day later. On May 15 they were back, safely, at headquarters.7 Theirs was the first party to climb either peak since the 1913 Stuck-Karstens expedition.

Another party attempted to climb Mt. McKinley that same spring, but its primary goal was scientific research, not the thrill of mountain climbing. During this period, many in the scientific community were excited about cosmic ray research. This field of inquiry had been launched in 1911 by Austrian scientist Victor F. Hess, who ascended in a hot-air balloon up to the 17,500-foot level with a gold leaf spectrometer, a device that counted radiation. Hess made his balloon flight because he, and other scientists, knew that there was more radiation in the environment than they could account for by the known sources of natural background activity. Hess, hoping to learn about new sources of radiation, was surprised to find that the higher he climbed, the more he (and the spectrometer)



Three months after the Lindley-Liek group discovered the deaths of Allen Carpé and Theodore Koven, the first two fatalities on Mt. McKinley, a recovery party dug Koven's body out from nearly ten feet of snow and brought it back to Koven's mother. The retrieval party consisted of Merl La Voy, a veteran of the Parker-Browne expeditions of 1910 and 1912, Andy Taylor, George Pitiff, and park ranger Grant Pearson. DENA 3065, Grant Pearson Album, Denali National Park and Preserve Museum Collection

were subjected to a new, previously unknown form of "penetrating radiation" that came from an unknown location in outer space. At first, few believed that Hess had discovered anything significant; they felt that this radiation came from well-known, predictable sources. But in a series of subsequent experiments, Werner Kohlhörster confirmed Hess's hypotheses. By 1919, many in the scientific community recognized that these sub-atomic, high-energy particles (what Hess called "cosmic radiation") represented a new phenomenon, and in 1936 Hess was awarded the Nobel Prize in physics for the research related to his balloon flight and similar efforts during the 1911-13 period.⁸

The excitement surrounding Hess's research, and the questions posed by his conclusions, stimulated others to discover more about these particles, that soon came to be known as cosmic "rays" because Robert Millikan-another Nobel prizewinner in physics—theorized in 1925 that these particles were gamma rays from space. Four years later, Kohlhörster along with fellow physicists Dimitry Skobelzyn and Walter Bothe did further work on cosmic rays.9 Each of these efforts, which were confined to various university laboratories, stimulated others to perform field research to gather additional data. In particular, Dr. Arthur H. Compton of the University of Chicago hoped to institute a "wide program of investigations of cosmic rays at high elevations in different parts of the earth." Out of research

came a recognition that cosmic ray intensity increased in high latitudes as well as high elevations. For that reason, a popular publication stated that "likely points for finding the cosmic rav are believed to exist in Alaska, Hawaii, New Zealand, Australia, Peru and Mexico." By January 1932, a brilliant electrical engineer from Bell Telephone Laboratories, Allen Carpé, had won a grant to pursue cosmic ray research, and he planned to carry out many of his measurements "at high elevations on Mount McKinley." In addition to his scientific talent, Carpé was an accomplished mountaineer, with several first ascents to his credit, and to assist him with his endeavor were Theodore Koven and three other colleagues.10

Carpé and his party planned to set up a research camp high on the mountain's slopes; he planned to fly in some of his supplies but hoped to have other supplies brought in by dog team. He soon made his plans known to park superintendent Harry Liek, who because of the expedition's scientific nature agreed to haul supplies from McKinley Park Station to the research camp. Carpé and "a most impressive pile of mountain climbing equipment" arrived at the station on March 27." The three-man contingent that left headquarters on April 4 hauled most of the cosmic ray party's gear as well as that of the Lindley-Liek expedition. Then, on April 25, bush pilot Joe Crosson made the first of two flights hauling Carpé, Koven, and most of their remaining



In 1934, the first party summited Mt. Foraker's north and south peaks. The three men on the right-Chychele Waterston, Charles F. Houston. and Dr. T. Graham Brown (left to right)-reached the top of the two peaks after braving wet and snowy weather, with 30 inches of snow from one storm at their high camp. Shown at the park superintendent's house, the trio was supported on the climb by Charles Storey (left) and by Houston's father, along with their horse packer, Carl Anderson (not pictured). DENA 3065, Grant Pearson Album, Denali National Park and Preserve Museum Collection.

equipment from Nenana to the 6,100-foot level of the Muldrow Glacier, which was opposite Gunsight Pass. (This was the first-ever instance in which a mountaineering expedition in the park was supplied by an airplane.)12 And shortly afterwards, Crosson airdropped additional supplies to them at the 11,000-foot level. By May 3, Carpé and Koven were set up in camp, and they began their measurements. Several days later, however, tragedy struck. Carpé, apparently in the midst of a snowstorm, fell into a huge crevasse. Koven then descended into the crevasse in an attempt to retrieve Carpé. Though unsuccessful in his goal, Koven was somehow able to drag himself out of the crevasse. But due to head and leg injuries sustained during his attempted rescue, he died soon afterward. On May 11, the returning Lindley-Liek expedition members stumbled across the party's empty campsite, discovered Koven's frozen remains, and tried to piece together the grim events that led to two deaths. Their search for Carpé, however, proved fruitless; his body, entombed in the ice, was never found.13

Early Climbing Management

In July and August 1934, a party headed by Charles Houston made the initial ascent of Mount Foraker. In early July, the six-man party drove more than sixty miles out the park road, and then headed southwest with pack horses to Mt. Foraker's base. Three climbers ascended Foraker's north peak (17,400 feet) on August 6 and its lower south peak (16,812 feet) on August

II. The entire party returned to Savage Camp on August 28.¹⁴

Two years later, Bradford Washburn made his first trip to Mount McKinley. The man who would climb McKinley three times (once with his wife Barbara), and whose name would become virtually synonymous with high-quality photographs and detailed mapping of the mountain, came to the Mount McKinley area in mid-July 1936 at the behest of Gilbert M. Grosvenor, the longtime editor of National Geographic Magazine. Washburn had done his first Alaska mountain climbing in 1930, just out of his freshman year at Harvard, and because of a series of well-publicized climbs and treks he had become well-known to both his fellow climbers and to National Geographic readers. (Indeed, in early 1935, Grosvenor had offered Washburn a position at the National Geographic Society.) Because one of the primary reasons for the success of Washburn's 1935 Yukon expedition had been the daring, innovative photography he had taken, it should have been no surprise that Grosvenor hired him to take a series of photographs of Mount McKinley as well.15 Taking off from Fairbanks, Washburn and his pilot flew on a circular route just below the peak's summit. Washburn, wearing an oxygen mask, mittens, and a cold-weather flying suit, sat on an old gas can and took photos from an openair compartment (the plane's door having been removed). After enduring these conditions for two days, he noted that his "interest in [McKin-



Bradford Washburn's intense interest in Mt. McKinley and the surrounding region, and his extensive work photographing and mapping the area, increased the knowledge of climbing possibilities in the region. From aerial reconnaissance and photographs he studied new climbing routes on the mountain. This 1947 picture of Bradford Washburn shows him preparing for one of his many aerial photography flights, which began in July 1936. DENA 5438, Denali National Park and Preserve Museum Collection

ley's] peaks and glaciers was so whetted that I returned in 1937 and 1938" to make additional photographic reconnaissances. So far as is known, Washburn never set foot in the national park at any time during the 1930s.

In the years prior to World War II, mountain climbing was practiced by a relative handful of outdoorsmen, and only a smattering of those in the climbing fraternity plied their craft within the boundaries of the various national park units. Mountain climbers, then as now, could be notoriously independent, and for the most part they bridled at the imposition of any restrictive regulations. NPS officials, to a large extent, were comfortable with their handsoff role, and prior to the 1930s, there were no agencywide published rules regarding mountain climbing. The NPS's only administrative direction, in fact, was the encouraging language of the so-called Lane letter of 1918, which noted that "All outdoor sports which may be maintained consistently with the observation of the safeguards thrown around the national parks by law will be heartily endorsed and aided wherever possible," with "mountain climbing" being first on the list of Lane's "favorite sports." This broad encouragement was repeated, almost verbatim, seven years later by Interior Secretary Hubert Work. At Mount Rainier and Grand Teton national parks (established in 1899 and 1929, respectively), the NPS had sanctioned licensing and guiding activities, but the agency had not attempted to regulate the climbers themselves. B

In 1936, the year in which the *Federal Register* was first published, Interior Secretary Harold L. Ickes issued the NPS's first detailed, agencywide Rules and Regulations. Included in its provisions were statements on "mountain summit climbing" that applied to just two of the agency's national parks. Section 31 read as follows:



From the 1940s through much of the 1960s, NPS regulations directed superintendents to appoint a ranger, familiar with local climbing, to meet climbers and discuss their proposed ascents with them. Here, in July 1956, Chief Ranger Robert Branges inspects equipment of the Mexican Explorers Club climbing party prior to their attempt on Mt. McKinley. DENA 17-24, Denali National Park and Preserve Museum Collection

In Mount McKinley and Mount Rainier National Parks, mountain climbing shall be undertaken only with the permission of the superintendent of the park. To insure reasonable chances of success, he shall not grant such permission until he is satisfied that all members of the party are properly clothed, equipped, and shod, are qualified physically and through previous experience to make the climb, and that the necessary supplies are carried. No individual will be permitted to start alone for the summit of Mount McKinley or Mount Rainier.

While the Government assumes no responsibility in connection with any kind of accident to mountain-climbing parties, all persons starting to ascend Mount McKinley or Mount Rainier will fill out an information blank furnished by the superintendent and shall report to him upon return.

When the superintendent deems such action necessary he may prohibit all mountain climbing in the park.¹⁹

But by the late 1930s, the rising number of climbers throughout the country—and more specifically the recognition that occasional, well-publicized accidents demanded some sort of response—caused NPS officials to more seriously

consider a broader agencywide regulatory role. As one letter to an NPS superintendent noted in a less-than-diplomatic fashion, should a climber "have the right to commit suicide if he wants to"?²⁰ Or should the NPS play a stronger role in ensuring the protection of climbing parties?

In the spring of 1940, NPS Director Arno Cammerer, after consulting with the Advisory Committee on Hiking, wrote a memo discussing the agency's role as it pertained to mountain climbing. He noted that:

From time to time, it has been suggested that regulations be issued to control hazardous climbing in the national parks. ... The consensus is that it would be inadvisable to impose restrictions because most climbing is done out of range of effective control. Therefore, no general regulations prohibiting climbing or other hazardous ventures will be issued at this time. ... Existing regulations and guiding practices at Mount Rainier, Mount McKinley, and Grand Teton National Parks will not be changed.²¹

Cammerer did, however, suggest the implementation of several voluntary measures. For example, he urged park staff to have climbers fill out a registration form, both before and after their hike. (As noted above, this action was consistent with language in the 1936 regulations.) He also urged each superintendent to appoint a ranger, "who is acquainted with local conditions and

climbing technique, to discuss intelligently with climbers the wisdom of proposed climbs." For those climbers who insisted on making an ascent which was "unduly hazardous or inadvisable," however, the ranger should tell the climbers that the trip was being made "in spite of an official warning." Finally, Cammerer noted that "rescue work continues to be the responsibility of the National Park Service," primarily because "there seems to be no practicable procedure whereby the individual or organization concerned can be required to pay for the expenses of rescue." He did, however, hope that privately-operated rescue patrols ("similar to the winter ski patrols") could be organized so that they could play some role in park rescue efforts.22

As Pearson and others have noted, Mount McKinley became increasingly popular during the 1940s and early 1950s: just one party attempted to summit during the first half of the 1940s, four more parties made an attempt in the second half of the decade, and six attempts took place during the four years between 1950 and 1953, inclusively.²³ Some were successful ventures, while others were not.

Climbing management during this period continued to be fairly minimal. As noted in Cammerer's 1940 climbing guidelines, potential climbers were required to register with the NPS and were urged to speak with a designated staffer about route choice, food, equipment, and general preparedness.²⁴ After the 1947 season (which featured three expeditions, two of which successfully summited Mount McKinley), those

guidelines were expanded. Park staff, under Supt. Been's direction, prepared a mimeographed outline which compiled mountain climbers' "mandatory requirements" plus a list of recommended supplies and equipment. This outline was sent on to the agency's regional office and, still in draft form, was "sent on to various Park Service offices and to individuals and organizations with the request for suggestions." These materials were first distributed in May 1948.25 Park officials expected that the materials in the mimeographed information packet would eventually be incorporated as federal regulations. Mountain climbing groups, however, vigorously protested the move, so instead, the materials distributed by park staff remained informational.26 Park officials, over the years, modified the materials in the information packet several times as circumstances demanded.27 But by way of contrast, agencywide climbing regulations—that is, those which appeared in the Federal Register—underwent only minor changes during this same period.28

Given these regulations and the updated information materials, the NPS was in a strong position to manage would-be climbers in the park. Most of those who tried to climb Mt. McKinley during this period contacted the park well in advance of their trip; others, however, arrived unannounced at park headquarters and explained their plans to the NPS at that time. Attempting to climb McKinley during this period without informing NPS would have been difficult if not impossible, considering the fact that all but one of the Mount McKinley climbing expeditions



This 1957 Mt. McKinley expedition, approaching overland from the park road to the Muldrow Glacier, is making the classic preparations for their overland trek, organizing food and equipment amidst that great challenge of the tundra, the mosquitoes of the Wonder Lake area. DENA 17-29, Denali National Park and Preserve Museum Collection

had taken what Grant Pearson called the "well-tramped-out McGonagall-Muldrow route" that began near Wonder Lake.²⁹

The NPS's climbing policy seemed to work well during this period. Inasmuch as Grant Pearson, who was familiar with conditions in the Alaska Range, served on the park staff (as either chief ranger or superintendent) during much of this period, he was able to provide skilled advice to potential climbers. In most cases, as it turned out, the climbing parties were adequately prepared for their venture. In only one instance did Pearson intervene. He recalled that in 1952, the Mexican Explorers Club

attempted the climb without proper equipment. [I] at first refused to let them go, because they did not have enough food. Park regulations required a 30 days' supply; they had only 10 days'. Finally, ... I said, "I'll let you go if you'll promise to come back when you have only two days' food left." They agreed. The four reached 8,500 feet on Muldrow, got down to their food limit, and came back.30

Despite Cammerer's dictum, in his 1940 memo, that "rescue work continues to be the responsibility of the National Park Service," park personnel during the 1940s had no effective rescue capability because of a lack of mountaineering equipment. And given the great distance and poor communications between the high peaks and park staff, NPS personnel were in no position to know if a mountaineering party was in distress. In only one instance—after the September 1944 crash of an Army Transport Command plane near Mount Deception—was a park ranger called upon to undertake a rescue effort (see Chapter 5). This effort took place only because military authorities forced the issue and provided all necessary equipment and supplies. In September 1948, ranger William Clemons represented the park at the agency's first-ever mountain climbing and rescue training school, which was held at Mount Rainier National Park, but there is no evidence that the park increased its rescue capabilities as a result or that Clemons himself attempted to climb any of the park's higher peaks.31

Mount McKinley as a Scientific Operations Base, 1947-1963

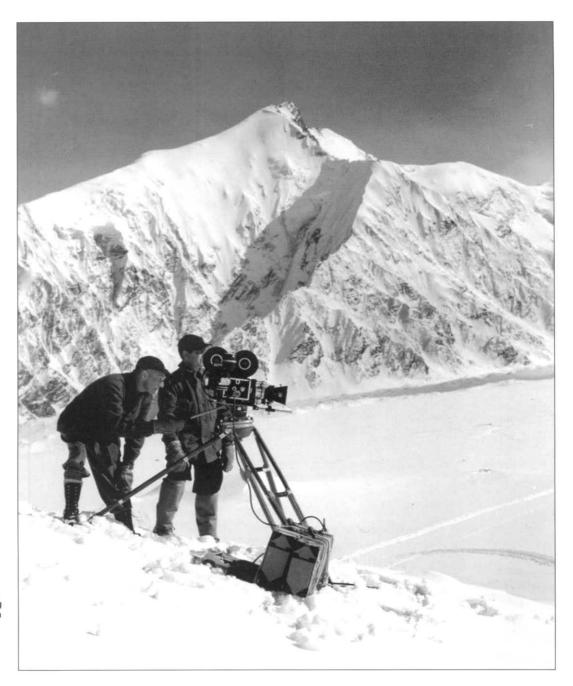
As noted above, scientific research on Mount McKinley in 1932 commenced when Allen Carpé and his assistant, Theodore Koven, performed cosmic ray experiments at the 11,000-foot level of Muldrow Glacier. Fifteen years later another ex-

pedition, of which Bradford Washburn was a key member, had cosmic ray research as a "major scientific goal."³²

The genesis of that 1947 expedition, however, was not science but Hollywood. In 1945, James Ramsay Ullman had written a wartime adventure novel (The White Tower) about the Weissturm, a mythical peak in the Alps. A year later RKO Pictures, a leading movie production company, purchased the rights to Ullman's novel, and soon afterward a studio executive named Paul Hollister called Washburn and pitched the idea of an expedition in order to obtain movie footage. Hollister showed an initial interest in Mount Everest, but Washburn convinced him that Mount McKinley, due to easier accessibility, would be a more feasible option. Washburn, given his role as the head of the New England Museum of Natural History, wanted to include science as part of the filming project; more specifically, he hoped to make it "financially possible for the museum to carry out a number of purely scientific objectives." Hollister readily agreed to Washburn's proposal, because a short public relations film about scientific research on the mountain would potentially be an excellent marketing tool for the upcoming feature film.33

Hollister then contacted several Harvard scientists, after which he asked Washburn to work with them "to suggest how many ways [the] expedition might make a real scientific contribution." Before long, their inquiries reached the U.S. Navy's Office of Naval Research (ONR), which at that time was the primary federal agency supporting academic research. Harvard scientists, meanwhile, mentioned the upcoming expedition to several colleagues, and before long Dr. Marcel Schein, a University of Chicago physicist specializing in cosmic ray research, stepped forward and expressed an interest in the project.³⁴

Washburn, meanwhile, had been making his own plans regarding the mountain's research possibilities, and it soon emerged that both he and Schein hoped to establish a high-altitude scientific camp. Washburn, by mid-October 1946, was envisioning a camp at Denali Pass (at elevation 18,180 feet) where "high altitude survey work and other projects ... could be carried out from a reasonably warm and comfortable base." Scientific supplies would be parachuted to the camp, which would be the "highest observatory ever established anywhere in the world." Schein, for his part, proposed in January 1947 a scientific program requiring a large research hut that would house a system of 300-pound telescopes, high-voltage batteries, photographic recorders,



Movie footage of background mountain scenery was filmed by RKO Radio Pictures on Mt. McKinley during Bradford Washburn's 1947 "Operation White Tower" expedition. The actual movie was filmed in the Swiss Alps. Operation White Tower Collection, Denali National Park and Preserve Museum Collection

heaters, and an ionization chamber. Given a recognition that "the major scientific goal of the expedition was Cosmic Ray research in Denali Pass," Washburn noted, "the Army Air Force agreed to furnish air support, in order to effect the establishment of this special camp." ³⁵

The expedition, dubbed "Operation White Tower," was organized in Anchorage in mid-March 1947, and the initial base camp (at McGonagall Pass) was established on March 30. The large support contingent was assembled at base camp in mid-April, after which expedition members began inching up Muldrow Glacier. Unusually poor weather retarded progress, but by May 20 Washburn and a colleague had established the beginnings of a new camp at the 16,400-foot level. That evening, however, a "wild blizzard"

began that would last for 18 hours; that blizzard, it turned out, was the beginning of the so-called "Great Storm" that would last for another nine days. Given the expedition's slow progress, Washburn on May 25 began to question the feasibility of conducting any cosmic ray work. He soon learned that the Geiger counters necessary for the research program had all been destroyed, and on May 27 he canceled the program. Upon hearing the news, Schein (who was not on the mountain, and communicated to the party via radio) protested Washburn's decision and demanded that replacement Geiger counters be flown in to Denali Pass.³⁶

The Great Storm finally ended on May 30. A week later, on June 6, eight expedition members climbed Mount McKinley's South Peak; among



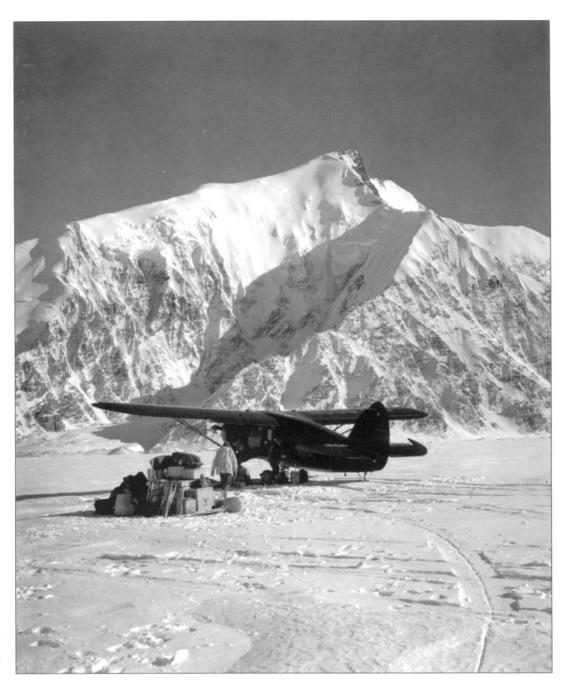
The Operation White Tower expedition base camp was established at McGonagall Pass. The Muldrow Glacier is seen beyond the camp. Operation White Tower Collection, Denali National Park and Preserve Museum Collection

them was Barbara Washburn, the first woman to reach North America's highest elevation. Then, the following day, several members continued on and climbed North Peak. Meanwhile, a military plane airdropped the constituent parts for the insulated, 9-foot-square cosmic ray hut; team members finished erecting the structure

on June 10, and replacement Geiger counters were on hand by June 16. Hugo Victoreen, the on-site director of the cosmic ray research program, conducted his research from June 17 through June 27. Schein, Victoreen, and his colleagues later reported that the data collected at Denali Pass was of great research value because,



This insulated hut was airdropped at Denali Pass, near the 18,000-foot elevation on Mt. McKinley, where Hugo Victoreen, pictured here, performed cosmic ray research for 10 days in June 1947. Operation White Tower Collection, Denali National Park and Preserve Museum Collection



Supplies were delivered to the Operation White Tower base camp at McGonagall Pass by this ski-equipped aircraft, landing near the center of the Muldrow Glacier. Operation White Tower Collection, Denali National Park and Preserve Museum Collection

among other reasons, such data had previously been "attainable only in short-duration plane flights." Several months later, Washburn wrote a report to his sponsors on the "Cosmic Ray Reconnaissance." In that report, he reiterated that of all possible sites on the mountain, Denali Pass "appears to be the most practical point for the erection and operation of the highest cosmic ray station on the mountain to be occupied by personnel for any extended period of time," and he further posited that "the safest, shortest, and most practical route of ground approach to Denali Pass is from Wonder Lake via McGonagall Pass, Muldrow Glacier, Karstens Ridge and Parker Pass." 38

During the planning period leading up to the "White Tower" expedition—and probably

unbeknownst to both military authorities and park leaders at the time—the agency was moving to establish a policy that promised to restrict the role of aircraft in park climbing expeditions. The NPS did not have a prior policy regarding aircraft landings, but in mid-March 1947—during the same week that "White Tower" participants were meeting in Anchorage—the agency issued its initial aircraft regulations. It noted that

The landing of commercial and private aircraft within the national parks and monuments is generally incompatible with the purposes for which the parks and monuments are administered. No person shall land aircraft on land or water, on any federally owned area within any national



The Operation White Tower expedition to Mt. McKinley utilized traditional and new transportation technologies, dog team and aircraft. Earl Norris freighted supplies and equipment with his dog team to the 11,000-foot level on the Muldrow Glacier. Operation White Tower Collection, Denali National Park and Preserve Museum Collection

park or monument, except for emergency rescue in accordance with the directions of the officer in charge of the park or monument or where such landing is caused by unforeseeable circumstances beyond the control of such person.

The NPS allowed exceptions to its general rule in five park units, one of which was Mount McKinley National Park. Landings in the park were sanctioned at the "McKinley Park Station airport" (at the east end of the park) and—perhaps in deference to the location where Bradford Washburn had conducted some of his research efforts—landings were also allowed on Wonder Lake. The slopes of Mount McKinley were officially off-limits.³⁹

The Navy's Chief of Naval Research, Rear Admiral T.A. Solberg, retained a high degree of interest in cosmic ray research, and two years after the White Tower climb, Washburn announced to the press that Mount McKinley, after a site-selection survey, had "been proposed for the world's highest permanent cosmic ray laboratory." Based on his 1947 work, he averred that a site at Denali Pass was "feasible" and

that "the laboratory could be occupied for a maximum of six weeks." Helicopters, he noted, "could be used to transport personnel 7,000 feet up the mountain, reducing the climb by at least a week."40

Members of the small but influential Wilderness Society read the press reports, and before long the Society's president, Olaus Murie, expressed his concerns about the proposed project to NPS Director Newton Drury. He noted that

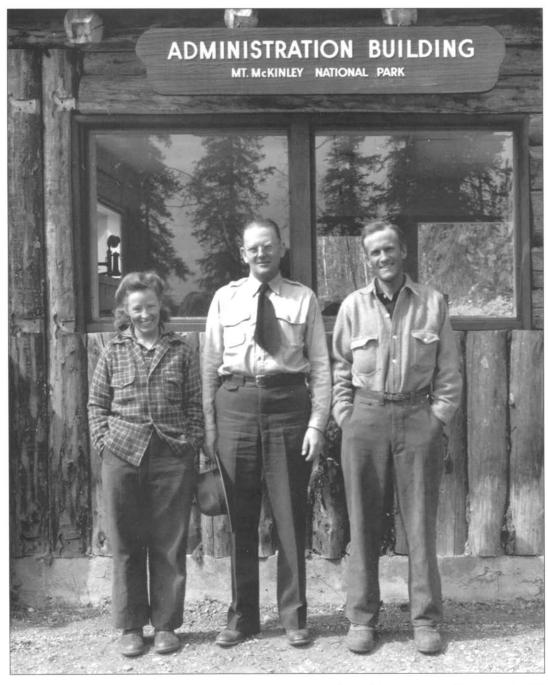
> It may appear to some that so long as ... no road is built, or any trail, that no harm is done. ... But there are other aspects to this. I think we all agree that a national park is not merely scenery ... it embodies history, a way of life, primitive experience, early environment. ... A national park is specifically dedicated to those intangible and imponderable qualities. ... It comes as a shock that there is a proposal to invade Denali itself with the attendant aircraft traffic. To those who are sensitive to mountains ... the knowledge that Denali is no longer "the most high", that it has been lit

tered with the impediments of man's modern mechanical experimentation, would lower the great mountain from its pedestal, would remove the present aura of remoteness and put it in the commonplace. Why leave it a national park after that?⁴¹

Murie that day penned similar letters to Rear Admiral Solberg of the Office of Naval Research and to Dr. A.L. Washburn, the Director of the Arctic Institute.

Meanwhile, voices in the NPS spoke out. Landscape Architect Alfred Kuehl, the agency's "Alaska hand" in the San Francisco regional office, had no objection to a structure at Denali Pass because it "would not be visible from any point on the ground" (i.e., along the park road or the Alaska Railroad). Superintendent Pearson did not disagree with Kuehl's specific statement; he did, however, feel that "never the less [the station] would do great harm to the spirit of remoteness we associate with the mountain [and] would also detract from the type of esthetics we are fostering in our National Parks." He concluded by saying, "It is not the Superintendent's intention to object to any developments which are absolutely necessary. Is this Cosmic Ray Station necessary?" 42

In late January, an Office of Naval Research official responded to Murie's letter. He was equivocal. On the one hand, he stated that



Pictured here in front of the Mt.
McKinley National Park Administration Building are Barbara Washburn,
Park Superintendent Frank Been, and
Bradford Washburn after the couple
spent 90 days on the Operation White
Tower expedition to Mt. McKinley.
Barbara Washburn participated as
one of the members of the climbing
team and became the first woman
to reach the summit of Mt. McKinley.
Operation White Tower Collection,
Denali National Park and Preserve
Museum Collection

"nowhere else on the North American Continent will we be able to make continuous measurements of conditions at 18,000 feet other than on Mt. McKinley" and that "These measurements have certain importance in the scheme of things." He also said, however, that "It is not planned at the present time to establish a laboratory on Mt. McKinley ... and will only plan it as a last resort."

Drury, upon being apprised of the ONR letter, warned Murie that "there is ... no indication that the project is given up. We must not relax efforts to preserve the mountain, the significance of which you have presented most clearly." Murie, soon afterward, passed his concerns on to Washburn; he stated that "I assure you I fully understand the problems that you face in nuclear research," but he also said "that if you and others concerned with this proposal can find it possible to discover another location, it would ease the situation greatly...".44 Washburn, by this time, had mentioned to NPS official O.A. Tomlinson that these studies might be carried out just as successfully at the 16,000 to 18,000 foot level; if so, Washburn would recommend "another mountain in the general vicinity of Mount McKinley, which would be much easier to climb." The Sierra Club's board of directors, aware that 16,237-foot Mount Sanford (in Alaska's Wrangell Mountains) was also being considered as a cosmic ray investigation site, asked the Navy in early May to give "full consideration ... to possible alternative mountain sites." A month later, Washburn gave the Sierra Club president a message that both NPS and conservation officials were glad to receive: that as a result of a June 4 meeting attended by a variety of cosmic ray physicists, "a location other than Mt. McKinley has been agreed upon as most practical for reasons of a scientific nature, as well as climbing safety and economy of field operations."45 The proposed cosmic-ray station on Mount McKinley, for the time being at least, was shelved.46

Later in 1950, the park was briefly utilized as a backdrop for new form of scientific investigation. In mid-October, the park superintendent noted that "a special group of military investigators" arrived at the park. These researchers told park staff that "the maximum intensity of the Aurora Borealis is located between McKinley Park and Fairbanks," and based on that assumption, they brought "cameras and other equipment to study the effects of the northern lights upon radio waves and to measure their base elevation." Their stay was apparently brief, and they did not return.⁴⁷

Despite his setback on behalf of the Navy during 1949-50, Brad Washburn persisted in suggesting Mount McKinley as a potential development site. In May 1951, just before his proposed West Buttress attempt, Washburn told a University of Alaska audience that Mount McKinley and other high Alaska peaks were being mapped for use as radar stations, weather observation points and centers of nuclear research. Two months later, after Washburn returned from his successful ascent, a Fairbanks reporter noted that "the mountain might be used in the future as a site for a fixed position radar station or cosmic ray laboratory, if such an installation is desired above the 18,000-foot level." Days later, however, he told the Anchorage press that "a point at the 17,000foot level" of the mountain "offers the world's most favorable spot for a cosmic-ray station for the advancement of atomic research." As late as 1953, he suggested in a National Geographic article that "McKinley's heights also provide a lookout for observing cosmic rays." Washburn's 1953 article reported the results of his West Buttress climb, and although scientific goals constituted two of the three reasons for the ascent, cosmic ray research was not included as a trip justification.48 Washburn, though unsuccessful in establishing a research station on the mountain, may have influenced a 1952 climber, Army Capt. William Hackett, to conduct some scientific research. Hackett, a veteran of successful climbs in 1947 and 1951, led a four-man party that agreed to carry "several nuclear plates coated with special emulsions to record the effect of cosmic rays striking the earth." Whether the atomic scientists who supplied the plates gained much information, or even if the plates were hauled up the mountain, is unclear.49

The last known proposal to utilize the upper slopes of Mount McKinley emerged during the late 1950s. After the Soviet Union successfully launched the Sputnik 1 satellite in early October 1957, U.S. authorities became far more aware of their defense vulnerabilities. Less than three months later, the U.S. responded by successfully launching its own satellite (Explorer 1), and it expanded its defensive posture through the conversion of many Nike Ajax missile sites into Nike Hercules sites, the latter missiles offering greater range and flexibility.

Given the Cold War climate and the impending space race, a Hughes Aircraft engineer named Vernal Tyler proposed the construction of a long, vertical tunnel under Mount McKinley, the primary purpose of which would be to launch high altitude space missiles. Tyler, who unveiled the plan in July 1959, noted that the idea "would be of great interest to geologists, mineralo-

gists and should capture the imagination of the public." Implementing the plan, however, would require the construction of a 52-mile railroad spur from the Gold Creek flag stop (south of Chulitna Pass), the construction of an 18-mile horizontal tunnel, and the boring of two 10,000-foot-long vertical shafts under Mount McKinley. Tyler anticipated that his plan would not be well received by conservation groups. His most important concern, however, was selling Washington officials on a project that would cost an estimated \$80 million. Tyler, so far as is known, made little or no headway with his scheme, but four years later, two other engineers aired much the same proposal – and had similar results. 50

The Rise and Fall of Science as a Climbing Justification

The various parties who climbed—or attempted to climb—Mount McKinley during the 1940s were similar to their forebears in that they approached the mountain from the north side, and did not depend on air support. But in June 1951, a climbing party tried something new. Pilot Terris Moore, who at the time was the University of Alaska's president, landed Brad Washburn and his party at the 8,500-foot level of the Kahiltna Glacier. Before long, Washburn and seven compatriots set off and climbed to the top of Mount McKinley, then retraced their route back the way they came. Moore met the party at its base camp, at the 10,000-foot level of Kahiltna, and flew them back to Fairbanks.⁵¹

Both of Moore's landings, which were part of a scientific expedition, took place within Mount McKinley National Park. Several months later, in February 1952, the Harvard Mountaineering Club contacted the park and requested permission to allow supplies to be air-dropped at McGonagall Pass as part of a planned climb up Mount McKinley later that year.52 These two actions stirred the agency to review its March 1947 regulations about airplane landings in the park. After receiving suggestions from both agency officials and Brad Washburn, NPS Director Conrad Wirth tentatively recommended a modified policy. Although he rejected any notion of allowing airdrops, he suggested that planes could legally land on the glaciers surrounding Mount McKinley if they were connected to "a scientific party." Washburn, after reading Wirth's policy, generally agreed with its intent. He was worried, however, that a "scientific" rationale could be defined too loosely, so he hoped that the agency would limit "air support permission to real scientific expeditions. Unless such a policy is [adopted], a great many very fine climbers [in the pursuit of science], who have high standards of integrity, will be prevented from using air

support" and, if expeditions were subject to lax regulation, air support would be available to parties "that have been organized primarily for the pursuit of adventure." Washburn went so far as to offer a series of specific criteria to define a "scientific expedition" in the park.53 Park and regional officials reacted positively to Washburn's suggestions and made only slight changes to them, and on June 16, 1952, Wirth's office issued a policy statement relating to aircraft support. That statement noted that "the use of aircraft in connection with mountain and canyon expeditions is prohibited" except by scientific parties, and the policy provided three specific criteria for those parties. The policy did, however, give park superintendents broad discretion to permit aircraft support.54

The agency's new policy helped guide its response to the Harvard Mountaineering Club who, as noted above, had written to Pearson requesting permission for air support. The club's president noted that the proposed ten-man expedition planned "to test new Army equipment on McKinley proper," and it also planned "to conduct survey operations and geological collecting in the [Mount] Brooks area" using "a high powered theodolite supplied by Harvard University." In response, Pearson stated that the agency was "unable to grant permission for air support." He further elaborated on why the action was necessary:

We feel that the use of air support in any but bona fide scientific expeditions will result in increasing pressures both here and in other areas of a similar nature. We feel that the climb of Mount McKinley is one of the few true mountaineering experiences remaining on this continent and that it should remain such, a conquest which yields only to those who seek to conquer without quarter asked or given.

Toward this end, it has been necessary to revise and define our concept of a scientific expedition. Its objective must be clearly within the realm of scientific, military, Federal or educational research and the application for air support must originate with the directive head of such organizations; time in the field must be spent in the pursuit of the authorized objective; and technical personnel must exist in the party at least in the ratio of one out of four. These requirements, plus final approval of the Superintendent



Members of the 1955 Kowalik Mt. McKinley Expedition were granted permission for limited aircraft use in support of their planned scientific studies for the U. S. Weather Bureau and the Bureau of Land Management. The four-man group from Anchorage, Alaska is pictured here with their pilot, Don Sheldon, second from left, at the McKinley Park airstrip. DENA 17-23, Denali National Park and Preserve Museum Collection

and an agreement of the party to file a formal report of results with the Director of the National Park Service, must be met.⁵⁶

Wirth's policy regarding a "scientific" need for glacier landings remained in place for years afterward. In the spring of 1954, for example, Superintendent Pearson noted that a five-man climbing party had asked if it could land supplies on Straightaway Glacier, northwest of Mount McKinley; in response, Pearson noted that the party "had permission for air support as they are making tests for the Ladd Field Aero Medical Laboratory and the UpJohn Pharmical [Upjohn Pharmaceutical] Company." And a year later, Pearson reiterated that NPS "authority for limited use of aircraft was granted" to a four-man party hoping to climb the mountain because one member worked for the U.S. Weather Bureau, another worked for the Bureau of Land Management, and they planned to make scientific studies for their respective agencies.57

After the 1955 season, however, park superintendent Grant Pearson began to have second thoughts about the park's aircraft policy. For the past several years, climbers had been telling him that inasmuch as they had "limited time to make the climb ... too much time [was] consumed in the shuttling process" involved in carrying goods up from the Wonder Lake starting point. Because the NPS's regulations increased both the time and expense of any climbing in the park, "mountain climbers [were increasingly] resorting to subterfuge" (by "attempting to ... assume the position of

being a scientific venture") in "an attempt to evade the issues set forth in our regulations." Pearson, trying to respond to those demands, said that "one suggestion [which] may have some merit ... would be to allow one air drop of equipment and supplies per party at the base of the mountain." (This "base" was practically defined as a "low elevation base camp such as at McGonagall Pass.") Pearson's suggestion met with general approval, and on March 19, 1956, Wirth issued an aircraft policy statement that cancelled his earlier (June 1952) statement. It instead noted that the "approval of requests for permission to utilize aircraft for delivering supplies to mountain climbing or canyon expeditions will be made at the discretion of the Superintendent on the merit of the individual case."58

The new rule was widely approved and appeared to have the potential to fundamentally change the way in which climbers organized their expeditions. The reality of the change, however, was that of the four expeditions that tried to climb Mount McKinley in 1956, the only one that requested an air drop lost most of its supplies in a Muldrow Glacier crevasse. And during the winter of 1956-57, a new event made the air-drop rule largely irrelevant. The Muldrow Glacier (according to Grant Pearson) "made a sudden rapid downhill movement" that "was still heaving and shifting" in June 1957. This "galloping glacier" forced at least one mountaineering party—intent on using the Muldrow—to turn back.⁵⁹

Given the lack of a north-side alternative, all nine parties that climbed Mount McKinley

between 1958 and 1960, inclusive, used Kahiltna Glacier as their access point. Because most of these parties did not have scientific permits, Talkeetna pilot Don Sheldon and his associates landed climbers just south of the park boundary, where they established their base camps and started their climbs.60 (Brad Washburn, back in 1953, had clearly marked the location where the park boundary crossed the Kahiltna in a map published in the American Alpine Journal. 61) Trip logs suggest that between 1958 and 1963, Sheldon landed most if not all climbers on the Kahiltna's main stem (at or near the 6,700-foot level). But beginning in 1962 or 1963, Sheldon and other pilots began using the Kahiltna's southeast fork, at or near the 7,000-foot level (and just inside the park boundary), a practice that became the norm in later years.62 During the 1950s, climbers ascending from the Kahiltna were unable to take advantage of air support, but in 1960 the NPS approved a new rule that allowed "all necessary flights [that were required to place the desired food, gasoline, etc. at a site at 8,000 feet or lower."63

Throughout this period, the Park Service's "scientific" requirements remained in place; as late as May 1960, author James Greiner noted that "All expeditions that are airlifted to points on the mountain within the geographical borders of Mount McKinley National Park must be conducted under scientific permits issued by park authorities." Greiner also noted that a would-be climber that spring, John Day, had "secured authorization for a 'photographic' expedition, a marginal category only occasionally acknowledged by authorities." ⁶⁴

The Evolution of Rescue Operations

Given the increasing popularity of mountaineering outside of Alaska, climbers and climbing groups began to recognize the value of safety and rescue operations. In 1947, for example, the American Alpine Club (AAC) published its first annual edition of *Mountaineering Safety*, which reported climbing accidents and recommended safety measures to prevent their recurrence. Over the next several years, a number of mountain rescue teams were established, and by 1958 these groups—operating under the AAC's auspices—formed the Mountain Rescue Association and held an initial meeting.⁶⁵

In Alaska, however, no civilian rescue groups had yet formed. Climbers—including those intent on tackling Mount McKinley—knew that they were on their own. Language in the agency's 1936 climbing regulations, as noted above, stated that "the Government assumes no responsibility in connection with any kind of accident to mountain-climbing parties," and prospective climbing parties were apprised that NPS personnel did not have the technical expertise to perform most rescue missions.

The question of who should coordinate rescue operations (if and when they did occur) changed during the 1940s. In 1940, as noted above, the NPS director noted that "rescue work [within all park units] continues to be the responsibility of the National Park Service." But in Alaska, the U.S. military—both the Army Air Corps and the Navy assumed an increasing search-and-rescue role during World War II. Military authorities



The 1954 Thayer Expedition, George Argus, Elton Thayer, Morton "Woody" Wood, and Les Viereck, departed by train from McKinley Station. On April 17th they began snowshoeing from Curry on the Alaska Railroad to Wonder Lake, completing the first southnorth traverse of Mt. McKinley and the first ascent via the South Buttress. The group had successfully reached the summit and was descending by Karstens Ridge when Thayer was killed in a fall. DENA 17-15, Denali National Park and Preserve Museum Collection

willingly offered their support, and resources, during civilian wartime emergencies, and when hostilities ended, the military continued to offer search-and-rescue assistance. By the spring of 1945, the U.S. Air Force had established a search and rescue center at Ladd Air Force Base, near Fairbanks, and in December of that year, the military's role was formalized when the newlyestablished Alaskan Air Command assumed control of rescue coordination activities on the territorial mainland. (Three months later, Air Force officials in the "Lower 48" established the Headquarters Air Rescue Service. It later evolved into the Air Force Rescue Coordination Center, which played a role in rescue activities throughout the country.)66

After that date, the military continued to have an official role in search and rescue activities in the park (as well as elsewhere in Alaska), and by the spring of 1952—when NPS authorities began demanding that climbers have a "standby party who can come to their aid in case of emergency"—the military's 10th Rescue Squadron assumed that role.⁶⁷ The Alaska Rescue Coordination Center's role lay untested, however, until May 1954, when two different events demanded the military's rescue capabilities. Early that month, a five-man party led by Dr. Donald McLean tried to ascend Mount McKinley via the previously-untried Northwest Buttress route. Beginning their ascent on Straightaway Glacier, the party successfully climbed North Peak, but a small plane supplying the expedition was not so lucky. The Piper, piloted by Lake Minchumina resident Richard Collins and with his wife Jeanne on board, was forced down by wind turbulence at the 8,500-foot level of Peters Basin. Hours later winds demolished the plane; the Collinses, however, were unhurt. The next day, the U.S. Air Force's 74th Air Rescue Squadron arrived with a helicopter and hauled them to safety. The Collins's plane remained on Peters Glacier until a 1987 glacial surge pulverized and buried what was left of it.68

During the same month that the McLean party was on the mountain, a four-man party led by NPS Ranger Elton Thayer was climbing the peak via Ruth Glacier and the South Buttress. All four summited successfully, and they seemed well on the way toward completing the first traverse of Mount McKinley. But on the way down, at the 13,800-foot level of Karstens Ridge, Thayer—who was roped to the other climbers—tumbled down a 1,000-foot slope and was killed. The other expedition members fell as well; George Argus seriously injured his hip and also suffered additional injuries. Leslie Viereck and Morton Wood, though shaken and battered in the fall, did

what they could to help. They fashioned a litter that brought Argus down to the 11,000-foot level of Muldrow Glacier, where they made Argus as comfortable as possible and left him with food and fuel; they then headed down to Kantishna, where they met NPS Superintendent Pearson and Chief Ranger Dick, who were out on the season's first patrol. NPS authorities then called the Air Force, and on May 26th—ten days after the group's accident—a helicopter from the 74th Air Rescue Squadron, based at the Army Arctic Indoctrination School at Big Delta, landed at the 5,600-foot level of Muldrow Glacier. (No available helicopter, in those days, could land at a higher elevation.) Squadron members then hiked up to Argus. Six days later, the eight-man contingent—one of whom was Dr. John McCall, who had climbed the peak in 1948—flew to the Kantishna Airstrip. Argus was then taken to an Anchorage hospital where he underwent extensive treatment for his injuries.69

In 1956, the responsibility for Alaska search and rescue operations was formalized in the first-ever National Search and Rescue Plan, which was signed by President Eisenhower. That document stated that the U.S. Air Force would be the single federal agency responsible for federallevel search and rescue for the inland regions (throughout the Lower 48) and throughout Alaska. And regulations issued in the wake of that plan stated that the Air Force's Alaskan Air Command was responsible for all Alaska search and rescue operations outside of southeastern Alaska and the Aleutian Islands. This nationwide plan has been revised a number of times during the last half-century, but in all of these revisions, the U.S. Air Force has remained the primary coordinating entity for all search and rescue activities in Mount McKinley (later Denali) National Park and elsewhere on the Alaskan mainland.70

By the late 1950s, the locus of the military's rescue activities had shifted to Anchorage, because in the spring of 1958, a spokesman for the Air Force's 374th Air Rescue Squadron, located at Elmendorf Air Force Base, announced that "in case of serious injury to a person in a remote area" of the park, it would "remove the victim ... by helicopter," but only at the NPS's request and only in "life or death" situations.⁷¹ The following year, student members of the University of Alaska's Alpine Club offered to "stand by to assist if necessary" in rescue efforts. Rescue groups were not needed in either 1958 or 1959, however.⁷²

A major air rescue effort took place in May 1960 because of distress among two Mount McKinley climbing parties. Helga Bading of Anchorage, who headed a five-person party, began to suffer from a "moaning hysteria" brought about by cerebral edema, then known as "altitude sickness." At the same time a nearby four-man party had fallen 400 feet resulting in a broken leg (to John Day), a concussion (to Pete Schoening), and lesser injuries to the two other climbers (brothers Lou and Jim Whitaker). Given this "double disaster," a member of Bading's party radioed for help to Air Force's Tenth Rescue Squadron, in Anchorage, which was the operating unit for the Alaska Rescue Coordination Center. This call resulted in chaos: poorly-prepared Army helicopters raced to the scene—only to be forced back—and more than fifty climbers from Seattle, Portland, and Anchorage gathered in Talkeetna, where they awaited further instructions.

Bradford Washburn, upon hearing (while he was home in Boston) about Bading's precarious situation, asked veteran Talkeetna fixed-wing pilot Don Sheldon to help. Sheldon, in a daring move, landed on a "fairly level glacier" at the 14,200foot level and took Bading to safety. But another small plane, with a civilian pilot and a U.S. Air Force observer, met with tragedy; while trying to drop supplies to Day, the plane stalled in a turn and crashed into a cliff, instantly killing both occupants. Shortly afterward, a Hughes Helicopter Service pilot, Link Luckett of Anchorage, was able to land on a 17,230-foot ledge near Day. Luckett then removed Day, and later Schoening, down to the makeshift, 14,200-foot-elevation airstrip that Sheldon had just pioneered. Sheldon then hauled them, along with many of the Lower 48 climbers who were assisting in the rescue effort, to another glacier airstrip at elevation 10,200 feet and on to Talkeetna.73 (Because they were inside park boundaries, use of the 14,200-foot and 10,200-foot "airstrips" were allowed only in emergency situations.) A month later, a member of the eight-man Glenn Kelsey party also required an air rescue; Sheldon had to evacuate him due to "mountain sickness."74

The deaths, and the haphazard approach to the Day-Bading parties' plea for help, demanded a new look at search and rescue operations in the park. Two solutions quickly came forth. First, "a group of mountain climbers, skiers, riverboat enthusiasts and skin divers" calling themselves the Alaska Rescue Group (ARG) formed in the summer of 1960. They were primarily based in Anchorage, and among their membership, "nearly a dozen have climbed Mt. McKinley, and others participated in the recent Day Party rescue effort." NPS officials welcomed the new group and approved their interest in becoming a standby party for future Mt. McKinley climbs, and they quickly revised their mountaineering information sheet to suggest that the new group would be

the climbers' primary standby party. In December 1960, park officials met with the group and recommended that "a formal rescue agreement between the park and the rescue group should be formulated."75 Soon afterward, however, they learned of the U.S. Air Force's coordinating role. Within a month the NPS had formulated a new, draft agreement between the military, the NPS, and the ARG. But Alaskan Air Command officials, upon seeing the agreement, let NPS officials know that given the Air Force's role, "it would be impossible to commit the Alaskan Air Command to an agreement such as you suggest."76 To resolve the matter, representatives from the Air Force, the NPS, and the ARG met at Elmendorf Air Force Base in late April 1961. They mutually agreed that "since the RCC [the Air Force Rescue Coordination Center] directs and is responsible for any assistance required, ... no agreement is needed between the NPS and the Alaska Rescue Group." Climbing parties, however, were free to "contact the Alaska Rescue Group for their standby party, as the ARG will be the first group to be contacted in an emergency by the RCC." The Air Force promised to keep NPS officials informed about any search and rescue operations that it coordinated. The NPS, for its part, stated that it retained the right to "take initial search and rescue action if such appears advisable." This arrangement laid the groundwork for future search and rescue operations, and it continued for most of the remainder of that decade.77

The second response to the Day-Bading parties' difficulties was the Park Service's decision to recommend changes to the existing mountaineering requirements. The American Alpine Club was asked to coordinate that effort, and to that end representatives from the NPS, the Boston Museum of Science, and the American Geographical Society met with the club president in New York in January 1961. The group suggested specific changes related to the "scientific expeditions" criteria, air drops, radio availability, and other topics.78 These proposals were forwarded to NPS Director Conrad Wirth. Minor changes were then made by Washington and regional officials, and they were implemented in time for the 1961 mountaineering season.79

Mountaineering Growth, 1961-1966

As the previous sections have suggested, climbing Mount McKinley during the years prior to 1960 was a singular feat; it was done very occasionally and was considered newsworthy because of its rarity. During both the 1940s and the 1950s, there were many years in which no one successfully summited either North Peak or South Peak, and the busiest year on the mountain had been 1954, when a record three parties



The town of Talkeetna became the hub for mountaineering access to Mt. McKinley by airplane. The airport was a small village strip adjacent to the town, and can be seen at the end of the road in this 1956 photo, which looks south. Alaska Railroad Collection, BL79-2-3857, Anchorage Museum of History & Art

and fourteen mountaineers reached the top. At the close of the 1959 climbing season—almost fifty years after the Sourdoughs' first successful ascent—only 17 parties had climbed one or both of McKinley's two highest peaks. Those parties constituted 81 members. But James Gale climbed it twice (in 1947 and 1951); Brad Washburn climbed it three times (1942, 1947, and 1951), and Capt. William Hackett climbed it five times (1947, 1951, 1952, 1954, and 1958). Given those repeat climbs, just 74 people (73 men and 1 woman, Barbara Washburn) had successfully summited Mount McKinley between 1910 and 1959, inclusively.⁸⁰

Beginning in 1960, however, climbing Mount McKinley became a less intimidating activity, and attempts to ascend the peak became increasingly commonplace. As noted above, several parties climbed the peak in 1960; that year, 23 men reached the top. Each year since that time, at least two parties have successfully climbed Mount McKinley, and during the 1960-66 period an average of more than 20 climbers summited each year. Gone were the days in which merely climbing the mountain was a triumph; instead, those who made news on the mountain did so when they by climbing new routes. Parties during this period, to an increasing degree, included either women or older climbers. In addition, the mountain-which previously had been of interest primarily to Americans—became a magnet to

climbers from all over the world. One observer noted that "as the decade [of the 1960s] began, climbing in the McKinley Group [of peaks] was attaining a decidedly international flavor. ... The laughing, mostly non-English-speaking groups of Oriental climbers have become commonplace on the gravel main street of Talkeetna." And a few years later, a local resident noted that "it became common place to hear the Japanese, French, German and Swiss languages on Talkeetna's Main Street."

The village of Talkeetna, indeed, was the new center of activity for all those interested in climbing Mount McKinley and other Alaska Range peaks. As noted above, climber Brad Washburn and pilot Terris Moore had pioneered a new, shorter route up McKinley in 1951 that began at an improvised airstrip on Kahiltna Glacier. Moore, that year, flew his party in from Fairbanks.82 But beginning in 1958, the great majority of McKinley climbs began at Talkeetna (which in 1960 had a population of 76), because the village was neatly sandwiched between Anchorage and the Alaska Range. It had a railroad station where climbers could detrain, and it also had an airstrip for small planes. Talkeetna became more accessible in 1962 when a dirt spur road was pushed through from Anchorage.83

Talkeetna, because of its airstrip, had pilots willing to take climbers to Kahiltna Glacier. The



Aviation pioneer Cliff Hudson is pictured here at the Kahiltna Glacier base camp with his wheel- and skiequipped aircraft. NPS Photo, Roger Robinson Collection

first such pilot was Glen Hudson, who arrived in 1947 and first flew to Kahiltna Glacier—apparently unrelated to a mountain climbing expedition—in a ski-equipped Aeronca.84 Another was Don Sheldon, who had run Talkeetna Air Service since 1948; he had been working with recreational climbers since 1953, and "as the 1950s drew to a close" (according to his biographer), "Sheldon's name and reputation were well known in mountain-climbing circles the world over."85 Sheldon had two employees, Mike Fisher and Frances Twigg, who also took climbers to and from Kahiltna Glacier. Given the escalating popularity of mountain climbing, new pilots appeared on the scene. They included Cliff Hudson (who was already a pilot by the time his brother died in an August 1951 plane crash) and Ken Holland; these men, like Sheldon, also served other clients including miners, hunters, and highway construction crews.86 These pilots blazed the pathway for today's glacier pilots.87 The exact location of the Kahiltna landing area, as noted above, was on the Kahiltna's main stem (and outside of the park) during the late 1950s and early 1960s, but beginning in 1962 or 1963, Sheldon located a new landing spot on the glacier's southeast fork (and just inside the park boundary). An NPS mountaineering ranger from the mid- to late 1960s stated that the landing area, so far as he knew, was inside the park and that the agency accepted the arrangement because it was "sort of an established thing." But a longtime air-taxi operator felt that the landing area during this period was outside of the park, and Art Davidson, who landed there in January 1967 to begin his winter ascent, noted in Minus 148° that "Sheldon cruised low over the Kahiltna, turned east to a tributary glacier, and landed just outside the McKinley Park boundary at an altitude of seven thousand feet."88

Given the southward shift in mountain climbing activity, NPS officials at first responded with onsite inspections; in April 1960, for example, park rangers traveled to Talkeetna and met with two Japanese climbers to inspect their gear and assess their preparedness. As the 1960s unfolded, however, rangers curtailed their inspections and instead relied on a two-pronged management strategy. First, they carefully scrutinized all applications and corresponded sufficiently with climbers to ensure that applicants were prepared for what lay ahead of them. (Many climbers also corresponded with Brad Washburn during this period, because he was considered the mountain's top authority during this period.) And second, NPS continued the rescue policy that had been set in 1960. That policy stated that all climbers had to obtain the approval of a qualified, Alaska-based rescue organization such as the Alaska Rescue Group or, later, the Mountaineering Club of Alaska. Obtaining this policy ensured that the designated rescue group would, if necessary, come to the aid of a distressed party. But these organizations, even more than the NPS, were so demanding in their approval requirements that none but the most well-prepared climbing groups were given permission to climb in Mount McKinley National Park.89

Throughout the early to mid-1960s, Alaska's (and Mount McKinley's) search and rescue



Don Sheldon, who established his Talkeetna Air Service in 1948, is pictured here with his airplane in 1955. Bradford Washburn Collection, 57-6105, Denali National Park and Preserve Museum Collection

> center was the Rescue Coordination Control Center, which operated out of Elmendorf Air Force Base beginning in 1961. The military, as it had for years, continued to play a titular role in mountain rescues. Pragmatically, however, their role was fairly limited. As noted in a January 1961 interagency agreement, the NPS (and more specifically, the park superintendent) played the primary coordinating role. If needed, the NPS (as noted above) would call on the Alaska Rescue Group or other approved group; the military, for its part, pledged to provide transportation to the mountain for rescue-group members. But the NPS also had the option to call on private entities for help. As it turned out, there were relatively few McKinley rescue calls during the

early to mid-1960s. When rescuers did request help, NPS officials in most cases called on Don Sheldon, the Talkeetna pilot. 90

Prior to the early 1960s, all parties attempting to climb Mount McKinley or other nearby peaks made their own arrangements. But given the growing popularity of climbing during this period, the demand grew for guided mountaineering, and in the fall of 1962, Richard McGowan from Edmonds, Washington (who had climbed the West Buttress route that June) initiated paperwork with NPS officials for a guiding permit. Since 1956, McGowan had been Mount Rainier's chief guide, and he had also climbed on Mount Everest. Representing the Mountain Climbing



The Sheldon Mountain House has been used as a base camp for skiers, mountaineers, and sightseers from 1966 to the present. Brian Okonek Photo

Guide Service, he received a special use permit in time for the 1963 climbing season. Soon afterward, however, he ran into problems. The Alaska Rescue Group, which had offered backup assistance to virtually all climbing parties for the past several years, refused to serve as a standby party for a commercial venture; the sole party that McGowan guided up the mountain failed to reach the summit; and in late 1963, the agency suspended his special use permit. To rethe next several years, no guides were authorized to lead climbs up Mount McKinley or other park peaks.

During the mid-1960s, a new way of enjoying McKinley's high country opened up that did not require advanced mountaineering techniques thanks to Don Sheldon, of Talkeetna Air Service. Sheldon, who had first explored the wonders of the Ruth Amphitheater in April 1955, recognized the surging interest in Mount McKinley as a tourist destination, so during the winter of 1965-66 he decided to build a hexagonal, 16foot diameter structure on a rocky spire at the southern end of the amphitheatre, just west of Mount Barrille. After flying in materials, he and several friends built the prefabricated "Mountain House." On May II, 1966 he invited more than 30 friends to the site for a grand opening "luau." Six months later, he filed on a 4.9-acre headquarters site surrounding the crag. Sheldon anticipated that the structure would be used as a summertime base camp for skiing, mountain climbing, and sightseeing.93 Don patented the parcel in June 1973. After his death in January 1975 his widow, Roberta, managed the site for the next 30-plus years.94

As noted above, the 1957 Muldrow Glacier surge had a strong impact on how climbers ascended Mount McKinley. Although almost all climbers before June 1957 approached the mountain from the north side and brought their supplies along with them, the great majority of post-1957 climbers started their treks on the Kahiltna Glacier after flying there from Talkeetna. This pattern was not universally true, however, and beginning in 1961, at least one climbing party each year during the early to mid-1960s (except 1965) headed up the mountain's north side from the park road.95

The 1967 Wilcox Disaster and Its Impact on Climbing Policy

The year 1967, in which Alaskans celebrated the centennial of the Alaska Purchase from Russia, proved to be the most popular year to date for climbing Mount McKinley. Early that year, an eight-man party set out to make the peak's first-ever winter ascent. One died on the way up. On March I, three of the remaining seven—Ray Genet, Dave Johnston, and Art Davidson—reached the summit. Immediately afterward, however, an unprecedented week-long storm descended on the group, and as Davidson noted in his book *Minus 148*°, the men nearly died as a result. An expensive rescue effort was undertaken, complete with a helicopter (brought up from Seattle) that airlifted out three climbers.

Later in March, the NPS issued a new version of *Mountaineering in Mount McKinley National Park*, a mimeographed guide to would-be climbers in the park. This guide, as noted above, had first been produced in 1947-48 and had been

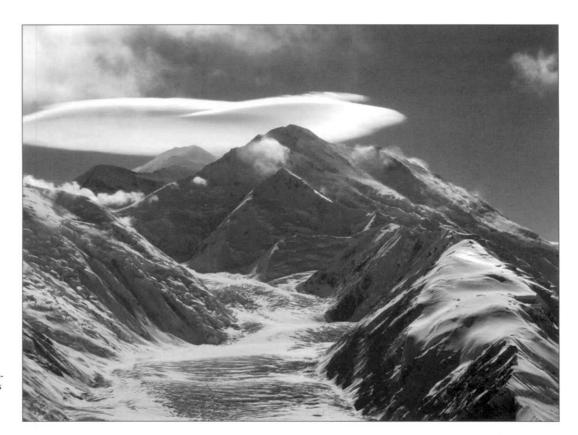


Pictured here is the twelve-man Wilcox-McKinley Expedition, made up of the nine-man Wilcox party and the three-man Colorado McKinley Expedition, which attempted to climb Mt. McKinley in July 1967. A combination of severe weather and other obstacles resulted in the deaths of seven climbers from this expedition. Mountaineering Records, DENA 13611, Denali National Park and Preserve Museum Collection

revised several times since then, most recently in 1961, 1962, and 1963.99 The guide had become more detailed over time; the 1952 revision, for example, had been just 4 pages long, but by 1967 it had grown to 9 pages. It incorporated the agency's federal regulations pertaining to park climbing, but in addition it contained warnings, food and equipment advice, reporting requirements, recommended ascent routes, and references for further information. The 1967 revision, which reflected a tightening of the rules since the early 1960s, stated that air support of any kind (air drops included) was "not permitted within the National Parks and Monuments without the written permission of the Superintendent." It reiterated a rule, that had been in place since 1959 if not earlier, that all climbing parties "must consist of at least four members;" ideally, the group should be larger than four members because of its "greater inherent strength and self-rescue capability." It also continued to recommend, as it had since late 1960, that climbers make written arrangements with "the Alaska Rescue Group or other qualified groups" in case of an emergency. Finally, it stated that, beginning in January 1968, all future "extended" expeditions in the park needed to carry a two-way radio.100

More than 60 mountaineers summited Mount McKinley in 1967, more than twice the number of any previous year. Most went by way of the West Buttress route and climbed the mountain safely and without incident. But that July, a twelve-man group called the Wilcox-McKinley Expedition met with disaster on the mountain. The expedition—which was an NPS-mandated amalgamation of a nine-man group headed by Joe Wilcox and the three-man Colorado McKinley Expedition, headed by Howard Snyder-decided to climb the peak up the north side, via Karstens Ridge. Internal conflicts between the two groups, a tremendous (Class 6) windstorm that descended on the mountain, poor radio communications, a confusing, tardy rescue effort, and perhaps other factors played a role in the deaths of seven climbers. The seven, all part of Wilcox's original group, died high on the mountain, at the 17,900-foot level or above.101

The scope of the disaster, plus the attendant publicity that it generated, forced both NPS officials and the climbing community to examine what went wrong. Some of that post-accident analysis was fairly immediate; additional thoughts came many years later. ¹⁰² The American Alpine Club, and others in the climbing community, had been pushing for some time for a relaxation of the NPS's climbing rules, which called for rangers to check climbers' gear, among other provisions. That effort, which continued in the months after the climbers' tragedy, eventually brought about a change in policy. As a latter-day superintendent noted, the agency sought a new rule "primarily because mountaineers objected to [the existing



Lenticular clouds engulfing Mt. McKinley indicate the presence of high winds. The Wilcox-McKinley Expedition encountered extreme winds at their highest camp, compounding their troubles. NPS Photo, Denali National Park and Preserve

rule]."¹⁰³ The NPS provided its own reason for steering a new course; as chief ranger Arthur Hayes noted at the time, "While every effort is made to increase climber safety by a fair and rigorous screening [of climbers' gear], it is impossible to be sure that correct judgments are made in all cases."¹⁰⁴

Three years later, NPS officials enshrined the new climbing philosophy as agency rules. In March 1970, the agency proposed three park climbing regulations. First, all parties interested in climbing either Mount McKinley or Mount Foraker¹⁰⁵ needed to register, and registration needed to include both a statement of each member's climbing experience and a doctor's statement testifying to each member's physical fitness to undertake such a climb. Second, all parties needed to carry "a two-way radio capable of reaching another manned station in ready contact with park headquarters." And third, "as soon as practicable" after the climb, party members needed to "report in with park headquarters." This proposed rule proved noncontroversial, and after minor modifications it was finalized in mid-August 1970.106

These rules, however, were not enforced, and several of them were apparently honored in the breach. As noted in a 1974 news editorial,

Since 1967, there has been no requirement to have a permit before climbing the mountain. The old system

granted permission only after a park official checked gear and evaluated the team. Now the philosophy is that Mt. McKinley is the people's mountain, and it's up to the climber to arm himself with gear and judgment before climbing it. Park officials do make an effort to inform climbers of dangers and ask them to report back, but no one [will] be denied a chance to climb the mountain.¹⁰⁷

A substantially different idea that surfaced in the wake of the tragic 1967 climbing season was the construction of a structure at the 17,200-foot level of Mount McKinley's West Buttress. Dr. Peter Morrison of the University of Alaska's Institute of Arctic Biology proposed the structure, with the full support of Bradford Washburn from the Boston Museum of Science. He envisioned that it would serve three purposes: a rescue base for search parties, "a laboratory for both planned experiments and for observations on climbers ascending and descending," and an emergency shelter. Morrison, who had applied for a \$200,000 Defense Department grant that would provide funding for such a structure, pitched the idea to park superintendent George Hall, who was "extremely cordial and cooperative" with him. Morrison, at the time, was also proposing the establishment of an Alaska Mountaineering Center at the University of Alaska campus, of which the West Buttress structure would play a key role. 108 Later that fall, Washburn pushed for

a support structure farther down the mountain. In a letter to Washington-based NPS officials, Washburn stated that

I don't know of any other major peak in the world that is climbed as frequently as is McKinley that hasn't got adequate shelter somewhere on its slopes, let alone at its base. A shelter of appropriate design and moderate size at, say, McGonagall Pass would not only serve as a valuable spot in which to safeguard supplies and provide shelter at the beginning of an ascent, but it would also provide a much-needed headquarters for rescue operation in time of tragedy.¹⁰⁹

Washburn's suggestion (which he had previously made during the mid-1950s) made little headway, but Morrison's Institute of Arctic Biology was successful in his grant request, and according to a news report, "a team of science specialists" gathered in Fairbanks in late 1967 "to determine what physiological and psychological tests could best measure men's performance, both on the mountain and in the institute's laboratories." With the "full cooperation" of the NPS, and with logistical help from Don Sheldon and Wien Consolidated Airlines, researchers representing "Project Themis" moved to establish field research camps at both the 14,200-foot and 17,200-foot levels of Mount McKinley. Operations began in June 1968. Due to high winds, the lower camp was not successful, but on the "flank of McKinley's Denali Pass area," Morrison—assisted by Art Davidson—established and ran a tent camp. For two weeks in July, researchers collected meteorological data and "explor[ed] for the first time the debilitating effects imposed on climbers by altitude, stress, and environmental extremes." They were only partially successful, however; they conducted tests only on themselves, not on mountaineers.110

Mountaineering, 1968-1975: Growth, Guides, and Garbage

As noted above, mountain climbing swelled in popularity during the 1960s. Prior to 1960, climbing Mount McKinley was a rare feat—never before had there been more than three successful expeditions per year—but during the early- to mid-1960s an annual average of more than four expeditions and 20 individuals reached the top. During the Alaska Purchase Centennial year of 1967, a remarkable 14 expeditions and 63 people reached the top of Mount McKinley, and not long afterwards even greater numbers were being tallied. Between 1968 and 1975, in fact, an annual average of 16 expeditions and 83 climbers

summited Mount McKinley, while additional expeditions climbed Mount Foraker and other Alaska Range peaks.¹¹¹

In order to provide access for the swelling ranks of mountaineers, various Talkeetna-based air taxi operations (as noted above) appeared on the scene during the 1960s. By 1975, takeoffs and landings at the 7,200-foot level of Kahiltna Glacier were so common that Cliff Hudson, of



At the request of Cliff Hudson, longtime climber Frances Randall became the first Kahiltna Glacier Base Camp manager, serving for nine summers. Every evening Frances would broadcast the mountain weather forecast over the radio and would often repeat it in fluent Japanese, Spanish, Russian and French. She played violin in the Fairbanks Symphony Orchestra and took her violin with her to the glacier. NPS Photo, Roger Robinson Collection

Annie Duquette was the second longterm base camp manager working for the combined Talkeetna air taxi services. She stayed for the entire climbing season of about 80 days. NPS Photo, Roger Robinson Collection Hudson Air Service in Talkeetna, supported an informal base camp where climbers could find shelter at the beginning and end of their expeditions.112 Volunteer Frances Randall stepped forward to staff this camp. Back in 1964, as part of a 15-person party, she had been only the fourth woman to summit Mount McKinley. Randall loved the job at the Kahiltna base camp and became a fixture there through the 1983 season. Her death, of cancer in 1984, was a loss keenly felt by Alaska's climbing community.113 The other well-known Kahiltna personality over the years-variously described as an "airtraffic controller, messenger, nurse, surrogate mother, and shrink"-was Annie Duquette ("Base Camp Annie"), who worked there from 1991 to 2000.114

Between the late 1960s and the mid-1970s, a major new element in Mount McKinley mountain climbing was the emergence of professional guiding. The first such long-term guide was Raymond E. Genet. In 1967, as noted above, he had taken part in the first successful wintertime ascent of McKinley, and he followed that feat with additional McKinley summits in August 1967 and May 1968. Soon afterward he applied to the NPS for a special use permit, and in June and July 1969, he successfully led a six-person party to the top of Mount McKinley. The following year, he led three more parties up the mountain: a group of three in May and June, a

group of thirteen in July, and a group of four in August and September. 115

Between 1971 and 1975, Genet and his company variously called Alaska Mountain Guides, Inc. and Genet Expeditions—was the primary avenue by which commercial clients were guided up Mount McKinley.¹¹⁶ Genet, as an Alaska-based provider, assumed—or perhaps hoped—that he would be able to serve as either an exclusive or preferred guide."7 NPS officials, however, had no specific prohibitions over the issuance of special use permits to Lower 48-based guiding companies, so as a result, Bay Area-based Mountain Travel, Inc. led trips up McKinley beginning in 1970, and Tacoma-based Rainier Mountaineering led trips up the mountain beginning in 1974. Several other companies during this period advertised trips up McKinley; it is not known, however, if they actually guided parties on the mountain. (A permit was also issued to a resident of nearby Hurricane, but the permit holder may not have used it.)118

Another person that was part of the park guiding scene during this period was Berle Mercer, a rancher from Lignite.¹¹⁹ In the summer of 1967, Mercer had supplied horse packing services for the ill-fated Wilcox-McKinley Expedition.¹²⁰ His involvement with the park, however, extended back a decade or more. In 1957, NPS officials had been in touch with him because his cattle—grazing

Berle Mercer (left) operated a business that transported climbers' food and equipment with pack horses and mules from the park road at Wonder Lake to McGonagall Pass. He often aided climbers by carrying them across the McKinley River on horseback. Interp. Collection #365, Denali National Park and Preserve



in the Savage River drainage—had inadvertently wandered south into the park.¹²¹ Then, in early 1961, Mercer had approached NPS officials with an interest in conducting a summertime horseback-riding concession. The agency provided him a special use permit for that purpose, and for several years thereafter he brought horses into the park for recreational rides.¹²² Mercer and his horses supported north-side climbing expeditions beginning in 1967. After that date, most years featured at least one Mount McKinley expedition that approached from the north side of the Alaska Range. Mercer's involvement with park climbing expeditions continued until June 1981.¹²³

By the early 1970s, the large and growing number of climbers on Mount McKinley (see Figure 4) was beginning to emerge as a public issue. A 1970 climbing-magazine article, for example, spoke of the "excessive number of people" on the West Buttress, and a 1973 news article was headlined "McKinley Like Grand Central." Given the fact that most climbers used the same route, garbage emerged as a problem. A veteran of climbs in both 1969 and 1970 noted that the

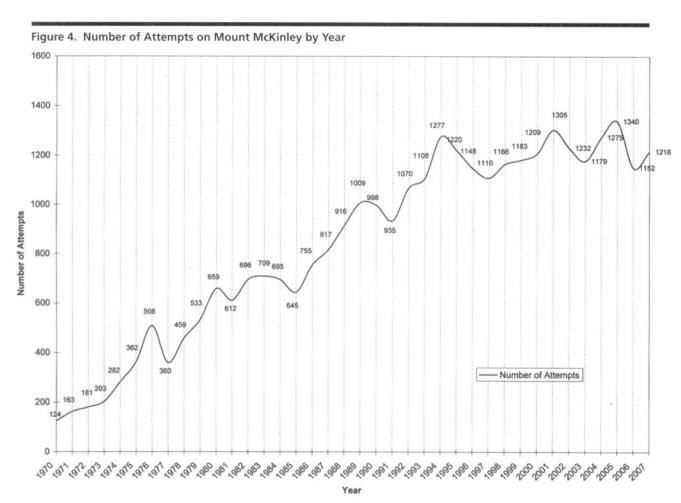
Residue of camps, their caches and garbage, are everywhere. The camps were fairly neat, but the garbage

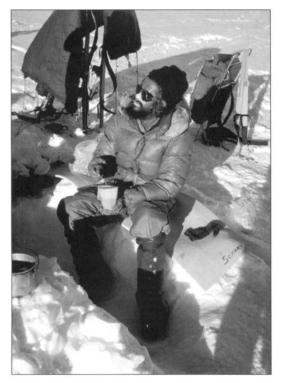
problem became ghastly at times. In 1969 the Kahiltna Glacier was such a mess that one could easily sight from the air where camps had been located. This year, at 17,250 feet on the West Buttress, the usual high camp for the route, the site was a literal dump. Trash was everywhere. ... It takes little energy and sometimes a short amount of time, if one is up high, to dig a garbage hole three or four feet deep. ... I appeal to my fellow climbers to please make the effort and dig a hole. 125

The NPS, in response, could do little. For years it had asked hikers and others in the park's backcountry (as it had in other national parks) to follow a pack-it-in, pack-it-out philosophy, but without staff on the mountain, anti-littering rules were impossible to enforce. One writer noted that rangers "put much of the blame on inexperienced climbers who packed in more equipment than needed, then discarded it. They also pointed to increasing numbers of foreign climbers who hadn't developed a 'Keep America Clean' consciousness." 126

To help, a seven-man expedition from the University of Oregon Outdoor Program, led by Gary

Figure 4. The increase in numbers of climbers attempting to climb Mt. McKinley each year, from 1970 through 2007, is illustrated by this graph. NPS, Talkeetna Ranger Station, Denali National Park and Preserve





Gary Grimm, Director of the University of Oregon's outdoor program, organized the first cleanup efforts on Mt. McKinley and continued to lead that movement throughout the 1970s. Roger Robinson Photo

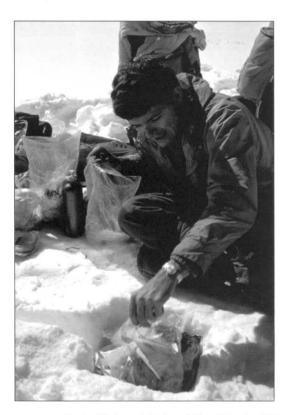
Grimm, made a summit climb in May 1971. When the group reached the 17,200-foot level, it found a large dump containing paper, cans, bottles, food, new and broken equipment, underwear-even plywood doors—plus a large scatter of human waste. According to a news report, the group "burned what they could, smashed what they couldn't burn, and back-packed as much as they could" (about 380 pounds) back down the mountain. Grimm noted that guides had left most of the trash; "they won't bother to bring it back because their clients don't pay to carry garbage." He suggested that much more needed to be done, including a greater regulation of guides. The group returned to the mountain, with much the same results, in 1973.127

A more large-scale attempt to remove trash from the mountain took place in July and August 1974, when 16 soldiers from Fort Richardson's 172nd Arctic Light Infantry Brigade were flown by helicopter to the 10,000-foot level of Kahiltna Glacier. Assisted by two NPS rangers, they hiked up the mountain and back down to the 6,500-foot level; they burned more than a ton of flammable debris and hauled another half-ton of garbage back to Anchorage. The following year, in August and September, the same military unit returned to the mountain and hauled another ton of trash away. ¹²⁹

Meanwhile, the University of Oregon continued in its cleanup efforts. In 1975 its Outdoor Program made two climbs, for a total of "more than a half dozen" expeditions since it began in 1971. Grimm counseled future climbers that—how-

ever charitable their motivation might be—they should not leave caches of food, fuel, or equipment on the mountain. He also urged the NPS to stop the practice of allowing air drops to climbers; in addition, Grimm stated that climbers should be compelled to take down their own refuse or face stiff penalties. Climbers in the program, later called the Denali Rehabilitation Project, climbed again in 1976. ¹³⁰

Searching for a way to deal with the ever-increasing problems of accidents, garbage, and other people-related problems, Roger Robinson, who was an avocational climber at the time, recommended that the agency 1) limit both the size and number of parties climbing on the West Buttress, 2) have more NPS contact with climbing parties and better enforcement of existing regulations, and 3) publicize the mountain's problems to national organizations and clubs, both in the U.S. and elsewhere. Gary Brown, the park's chief ranger, largely agreed with Robinson. He noted that "adequate enforcement is our present void, as is enforcement of all our mountaineering requirements." To address the problem, he stated that the agency planned to have two park rangers working "between Talkeetna and the West Buttress" during the 1976 climbing season. "This would provide us with an improved check-in and check-out system. This should also provide us with improved control over trash and equipment removal," he noted. Brown recognized that his plan did not solve the human waste problem. The "real" answer, he explained, was to limit the annual number of



Official NPS policy in 1975 recommended that climbers burn their trash. Roger Robinson Photo



On June 3, 1976, pilot Buddy Woods, in a Hiller 12-J-3 helicopter, landed one time at 20,300 feet, a few yards southeast of Mt. McKinley's summit, to drop off Ray Genet, who assisted with the rescue of two climbers. For this rescue Woods also landed two times at 16,000 feet, four times at 18,700 feet, two times at 19,600 feet, and once at 20,100 feet. Genet Photo, courtesy Talkeetna Ranger Station

expeditions, climbers, or party size. He was not yet ready to do that; he did say, however, that "we are closely reviewing the numbers crisis and look to future limitations."¹³¹

The Bicentennial Climbing Season and Its Aftermath

NPS officials, anticipating a big climbing season in 1976, moved to put rangers on the mountain for the first time since 1961, when Richard Stenmark had been part of a successful four-man summit party. In January 1976, the agency hired Robert Gerhard, a former climbing ranger at Mount Rainier National Park, as the new East District ranger.132 That June, Gerhard led a sixman NPS team on what proved to be a successful 35-day traverse from Kahiltna Glacier to Wonder Lake via Denali Pass and Muldrow Glacier. 133 That experience, which included at least one rescue, proved invaluable to the agency's understanding of climbers' problems and issues, and it proved to be a harbinger of future NPS ranger activities in the Mount McKinley vicinity.134

The rangers' presence came none too soon because in 1976, climbers flocked to the slopes of Mount McKinley in unprecedented numbers. To some extent, the mountain's popularity that year was bolstered by the nation's bicentennial; it was, therefore, reminiscent of the surge in climbing interest nine years earlier due to the Alaska Purchase centennial. Perhaps buoyed by a growing reputation among climbers that Mount McKinley was a "technically easy mountain," 73 parties and 508 climbers (114 led by professional guides) started up the mountain, and 339 made it to the top. All of these figures were far greater than in any previous year. Many tried to arrange their treks so as to reach the summit on July 4;

and although weather prevented any summit attempts that day, a record 70-plus climbers reached the crest of South Peak on July 6.135 The season was remarkable for a number of "firsts:" Tayomi Oishi skied all the way from the summit to Kahiltna Glacier; three hang gliders took the same general route, although more quickly; and guide Ray Genet helped set a helicopter altitude record when he jumped out of a helicopter on the summit plateau.136 Also for the first time, a high Interior Department official—Assistant Secretary Jack Horton—successfully climbed the mountain.¹³⁷ But the season had a fair share of tragedy, too. Four climbers died on Mount McKinley and another six on Mount Foraker. In addition, 33 climbers were injured so seriously that they had to be evacuated. The Park Service, which was called on to coordinate rescue activities, was prepared logistically for the tasks at hand. These 21 rescues, however, proved expensive; by season's end the agency was stuck with an \$82,142 bill for these unanticipated operations (See Figure 5).138

The season's tragedies, and expenses, brought forth an open, public debate on the degree to which mountaineering in the park should be regulated. At one end of the spectrum were those who felt that government had no business regulating climbers, while others felt that in the interests of public safety and expense, government needed to scrutinize all future climbers and, if necessary, reduce the number of climbers. Most people advocated a course midway between those extremes. As Gerhard noted in his year-end report,

Many people (mostly non-climbers, but also some mountaineers) began

Figure 5. South District Climbing and Rescue Data, 1976 to Present

| Year | Number of attempts | Number of summits | Number of deaths | Search and rescues | No. of climbers assisted | Total cost of search and rescues |
|------|--------------------------|-------------------------|------------------------|--------------------------|--------------------------|--|
| 1976 | 508 | 339 | 4 | 26 | 43 | \$82,142 |
| 1977 | 360 | 284 | 0 | 8 | 16 | 3,369 |
| 1978 | 459 | 270 | 0 | 7 | 13 | 13,816 |
| 1979 | 533 | 351 | 2 | 12 | 22 | 10,000 |
| 1980 | 659 | 283 | 8 | 16 | 23 | 47,335 |
| 1981 | 612 | 321 | 6 | 15 | 30 | 28,171 |
| 1982 | 696 | 310 | 0 | 16 | 27 | 74,871 |
| 1983 | 709 | 474 | 2 | 12 | 15 | 35,939 |
| 1984 | 695 | 324 | 2 | 12 | 14 | 46,432 |
| 1985 | 645 | 321 | 2 | 8 | 10 | 18,113 |
| 1986 | 755 | 406 | 4 | 8 | 12 | 42,990 |
| 1987 | 817 | 251 | 2 | 11 | 12 | 59,205 |
| 1988 | 916 | 551 | 2 | 12 | 18 | 16,790 |
| 1989 | 1,009 | 517 | 6 | 6 | 16 | 42,975 |
| 1990 | 998 | 573 | 3 | 8 | 13 | n.a. |
| 1991 | 935 | 557 | 0 | 8 | 15 | n.a.** |
| 1992 | 1,070 | 515 | 11 | 22 | 28 | 206,000 |
| 1993 | 1,108 | 670 | 1 | 16 | 24 | 70,800 |
| 1994 | 1,277 | 702 | 3 | 21 | 41 | 87,631 |
| 1995 | 1,220 | 523 | 6 | 13 | 32 | 147,167 |
| 1996 | 1,148 | 489 | 2 | 14 | 17 | 173,500 |
| 1997 | 1,110 | 561 | 1 | 13 | 22 | 157,776 |
| 1998 | 1,166 | 420 | 3 | 12 | 23 | 211,189 |
| 1999 | 1,183 | 508 | 0 | 9 | 14 | 103,950 |
| 2000 | 1,209 | 630 | 0 | 15 | 20 | 188,496 |
| 2001 | 1,305 | 772 | 0 | 10 | 12 | 56,137 |
| 2002 | 1,232 | 645 | 1 | 21 | 47 | 159,562 |
| 2003 | 1,179 | 688 | 0 | 14 | 16 | 121,312 |
| 2004 | 1,275 | 656 | 1 | 16 | 19 | 138,987 |
| 2005 | 1,340 | 775 | 2 | 13 | 17 | 115,497 |
| 2006 | 1,152 | 581 | 1 | 19 | 27 | 297,140 |
| 2007 | 1,218 | 573 | 2 | 19 | 23 | 210,857 |

<u>Note:</u> Data on summit attempts, successful summits, and deaths pertain to the South Peak of Mount McKinley, while search and rescue data pertain to all of the park unit's South District.

n.a. - Information not available. Data in italics are approximate.

** - In 1991, the NPS began contracting for the use of a Aerospatiale Lama high-altitude helicopter, which was based at the Talkeetna Airport throughout the climbing season. The cost of this helicopter was not included in the cost data noted above.

Source: NPS, "Mount McKinley South Peak (20,320 feet) Attempts and Summits;" NPS, "Climbing Deaths on Denali," both in Talkeetna Ranger Station files. Rescue data from NPS, "South District Search and Rescue Cost Summary," courtesy of Maureen McLaughlin.

demanding that the climbing parties who need to be rescued should pay the costs of their rescue. Others feel that all climbing parties should post a bond or show proof of insurance before being allowed to climb McKinley. Several outdoor organizations have proposed that all government agencies, except the military, stop providing assistance to parties that request a rescue. Many people feel that the National Park Service should re-institute the old regulations which gave us the authority to screen applicants and their equipment and deny them the right to climb if we did not feel they were qualified. A few climbers feel that guide services should not be allowed to operate on Mount McKinley since this activity allows less experienced climbers to be on the mountain.139

In response to these questions, Gerhard suggested only that "the National Park Service regulate mountaineering activity as little as possible, with necessary restriction being recommended by or agreed to by mountaineers and mountaineering organizations." The agency's regional director, Russell Dickenson, agreed; he stated that "I don't believe the Park Service ought to be making that kind of judgment. ... If it ever gets to the point where restrictions are required, it ought to be done by one's peers." Gerhard further noted that no major changes would be implemented in

1977. To find out more about climbers' attitudes, he sent an informational newsletter to the leader of every 1976 climbing party. Fewer than half of those leaders responded, however, and climbers' apparent lack of interest prevented the survey's completion.140 Meanwhile, Interior Department officials made their voices known. Assistant Interior Secretary Jack Horton, who had summited the mountain in late June, told an Anchorage reporter that he did not encourage "further government encroachment" in the form of regulating climbers. Several months later, Dickenson went a step further and told a Spokane audience that "there should be a responsibility on an organized climbing party to at least partially reimburse the government or provide for its own rescue."141

In 1977 the NPS, as promised, stationed two mountaineering rangers (Bob Butts and Nick Hartzell) at Talkeetna.142 According to an NPS report, they "contacted each expedition prior to climbing. These rangers discussed routes, equipment, medical problems, hazards, and rate of ascent with virtually every climber approaching the mountains from the south side of the park." Given the fact that the difficulties of 1976 had been so well publicized, climbers were apparently either better prepared or more prudent. As a result, no one died in the high Alaska Range in 1977. Only two helicopter evacuations were needed (one on Mt. McKinley, the other on Mt. Foraker) and just two fixed-wing rescue operations were conducted (both on Mount McKinley). As a result, air evacuation costs plum-



Rangers Nick Hartzell and Bob Butts created this simple outhouse design and constructed it in Talkeetna in 1977. The outhouse was placed above a 10-foot hole in the glacier. The last year for pit toilets at the Kahiltna Glacier Base Camp was 2005. Roger Robinson Photo

meted more than 95 percent, to just \$3,369; the government's costs for the fixed-wing rescues, moreover, were paid for by the injured climbers. The two NPS rangers played a direct role in managing climbing activities that year; they carried out two ten-day patrols along the West Buttress route, and gave three injured climbers sufficient assistance that they were able to avoid an air evacuation. ¹⁴³

Recognizing the growing waste-disposal problem, Park Service rangers in 1977 initiated a "climb clean" policy that required climbers to pack out all gear, refuse, and fixed line. Their emphasis was on educating mountaineers about the policy as part of their pre-climb orientation, in Talkeetna. Rangers that year also helped install the first pit toilet on the mountain, at the Kahiltna base camp. 144 Climbers were reminded that "all trash, equipment, and unused food must be removed from the Park. If you carry it up, you can carry it back down." This advice, however, did little at first to ameliorate the problem; the following year, a mountaineering ranger noted that McKinley's "well-publicized garbage problem continues ... this year it appeared worse than in previous years."145

In 1978, managing McKinley's climbers became more difficult. The number of climbers increased after the previous year's dip, and the weather—which had been generally good the previous two years—proved relatively stormy. The mountain, moreover, again attracted people who had no business being on the mountain. (A climber from Colorado was responsible for a "poorly organized and poorly led" 13-member group that unsuccessfully attempted the West Buttress route, and soon afterward, a climber at the 17,200-foot level requested an evacuation from both the NPS and local air services because he had a "very important business engagement" in Africa.) Two Japanese climbers were killed on Mount Foraker; in addition, eleven climbers sustained accidents that required an air evacuation; expenses related to the seven rescue operations cost the NPS \$13,816. Talkeetna-based rangers Dave Buchanan and Nick Hartzell conducted much the same program—complete with two 10day West Buttress patrols—that agency rangers had done in 1977.146

Recognizing the increasing—and public—costs associated with air rescues, various people began to clamor for climbers to offset rescue costs by posting a bond. This suggestion, as noted above, had been aired by Robert Gerhard in 1976. As far back as July 1972, however, the *Anchorage Daily Times* had called for the adoption of either bonding or insurance; in May 1976, in the midst

of the mountain's most accident-prone climbing season, it reiterated that call. Then, in early 1978, Alaska Rep. Larry Carpenter (R-Fairbanks), asked U.S. Senator Ted Stevens to get the NPS's views on the subject. In response, NPS Associate Director Daniel Tobin noted that his agency had the legal authority to recover rescue costs, through either direct billing or a bonding requirement. Tobin noted, however, that

The cost of a major search or rescue operation is well beyond the ability of most people to pay directly. Inquiries thus far have revealed that bonding, short of a full cost deposit, is not available and that conventional carriers will not underwrite insurance. Registration fees sufficient to offset rescue costs would be prohibitive to many climbers. Further, any system of recovering costs would penalize the responsible, self-sufficient, and well-conditioned parties, along with those who use poor judgment or suffer from an accident or illness. [Given that] no charges should be assessed in a way that would discourage one in distress from asking for assistance ... we question the feasibility of holding [climbers] liable for the entire financial burden. ... We believe that more intensive management of climbing activities ... will tend to keep costs at a relatively low level. ... Another year or two of experience will tell.147

Guide Regulation

As noted above, the first person sanctioned to conduct guiding activities in the park was Richard McGowan, who obtained a special use permit and led a single, unsuccessful 1963 trip. The second Mount McKinley guide was Ray Genet, who led six clients to the top in June and July 1969. Until the mid-1970s, Genet's Alaska Mountain Guides was the primary guide service on the mountain, although several others were active as well. Bay Area-based Mountain Travel, Inc. began leading trips in 1970, the nonprofit National Outdoor Leadership School began in 1971, and Tacoma-based Rainier Mountaineering started there in 1974. 148

In 1976, the mountain was far more popular than in previous years, and of the 508 climbers who reached the top, 114 (22.5 percent) were led by professional guides. Five companies guided clients up the mountain that year: three veteran groups (Alaska Mountain Guides, Mountain Travel, and Rainier Mountaineering) along with two new organizations (Mountain Trip from

Anchorage and Fantasy Ridge Mount McKinley Expedition from Estes Park, Colorado). Most groups were well-prepared and were escorted in relatively small groups. Genet, however, amassed 44 climbers in three closely-spaced groups and shepherded them all up the mountain at the same time. Other guides complained about Genet's methods, claiming that he was "spreading [him]self too thin," and one of his clients died (of pulmonary edema) at the 17,200-foot level. During the winter of 1976-77, the NPS responded to the criticism by roughing out a proposal to issue four-year concession permits to a limited number of guides; to retain that permit, moreover, guides would need to demonstrate minimum qualifications regarding previous experience, technical climbing ability, customer satisfaction, and other criteria. 149 Late in 1978 they again considered the matter, but as Gerhard noted, "many questions about management of Alaska lands will remain cloudy or unanswered until after Congress acts on an Alaska Lands Bill, and permits for mountain guide service operations are caught in that current." As a result, the NPS instead chose to issue six special use permits that year to mountaineering guide services.150

In 1980, Congress finally passed the Alaska National Interest Lands Conservation Act. That same year, NPS authorities went ahead with its long-delayed plan. On May I, the agency issued a prospectus for mountain guide services and asked all interested applicants to provide relevant information about their qualifications and

In 1979 Ray Genet, left, and Brian Okonek, who took this picture, guided the first ascent of Mt. McKinley with a dog team. Mushers Susan Butcher and Joe Redington Sr., center, took part of their dog team to the summit by the West Buttress route. The lead dog appears on the left side of this summit photo. Brian Okonek Collection

experience, particularly as it pertained to Mount McKinley and adjacent peaks. Fifteen firms responded to the prospectus. Between August and November of that year, a three-person panel weighed a variety of factors and offered four-year concession permits (until December 1984) to the six top candidates: 1) Aerie Northwest of Seattle, 2) Fantasy Ridge Alpinism of Estes Park, 3) Genet Expeditions of Talkeetna, 4) Mountain Trip of Kasilof, 5) North Cascades Alpine School of Bellingham, and 6) Rainier Mountaineering of Tacoma.^[5]

Shortly after the permits were issued, an *Anchorage Daily Times* reporter spoke to Denali National Park and Preserve Superintendent Robert Cunningham about the new permit system.

Cunningham noted that

the change to a concession system was made for several reasons ... including meeting Park Service regulations that require the use of bidding to select firms conducting commercial operations in national parks. ... [T]he new system will provide reasonable insurance to clients that their guides are experienced and economically capable of handling the demands of expeditions on Mount McKinley and other mountains. Also, ... the system will control and restrict climbers on the mountain. Commercial expeditions will be limited to 15 clients. No firm can start a second party up a mountain within 15 days of its first group's start.152

Not surprisingly, a handful of companies that were not selected openly questioned the agency's methodology. One of those companies was the National Outdoor Leadership School (NOLS), which was based in Wyoming but with an Alaska office in Palmer. The company had been active throughout the 1970s, and as noted in a 1976 article, the school "had a reputation for safety and good logistics on the mountain." The problem stemmed from an honest difference of opinion on how the nonprofit organization reported its revenues, and by February 1981 NPS personnel recognized that the agency "may have erred during the evaluation process." In June 1981, park personnel granted NOLS the right to continue guiding at historical usage levels (which was a single trip up the mountain) that year. That December, the solicitor's interpretation of the newly-enacted Alaska park regulations allowed a continuation of that practice in 1982, and in October 1982 the park superintendent issued a regular, four-year concessions permit (retroac-



Mountaineering and aviation have been partners on Mt. McKinley since 1932. Lowell Thomas Jr., of Talkeetna Air Taxi, tested his Helio Courier on this first landing at 14,200 feet in 1983. This aircraft is capable of short takeoffs and landings, and he found it worked well for resupplying the medical camp and assisting with rescues at this location. Roger Robinson Photo.

tive to January 1981) that gave NOLS much the same status as the six commercial services that had been awarded concession permits in late 1980. 153

Despite the careful, deliberative process that resulted in the selection of seven carefully-screened concessions permittees, NPS officials were slow to enforce its regulations against non-selected companies. The agency's 1981 mountaineering summary, for example, listed two unauthorized, active commercial guides from Germany and a third from Japan, and in 1983 it listed two unauthorized, active climbs conducted by nonprofit educational organizations. The agency finally began to enforce the regulations in 1984. Citations were issued to an American and a Japanese guide; in 1985 a German guide was cited; and in 1986 violation notices were issued to two Americans and a New Zealander. The

Given the fact that commercial guides escorted between 20 and 25 percent of Mount McKinley climbers up the mountain during this period, and because there was a consistently high interest in climbing McKinley in the years that followed, the companies that the NPS selected as permittees in December 1980 could count on a predictable clientele. It is perhaps not surprising, therefore, that four of these six companies remained as commercial guides on Mount McKinley for ten years or more.¹⁵⁶

These permits, however, pertained only to activities within the so-called "old park," and according to language in the newly-passed Alaska

National Interest Lands Conservation Act, there were no limits on the number of enterprises that could conduct mountaineering guiding activities on lands beyond the "old park" boundaries. At first, companies showed lukewarm interest in "new park" guiding activities, but by 1983 nine different firms were signed on as commercial use licensees. Only one of these (NOLS) was also serving as an "old park" guide.¹⁵⁷

The various Talkeetna flying services also began to be regulated at this time. When Congress passed ANILCA in 1980 and "old" Mount McKinley National Park tripled in size, Kahiltna Glacier and other popular landing areas were included in Denali National Park. Flying onto glaciers south of the Alaska Range was a well-established use by this time, and the only bureaucratic impact of the park's expansion was that the flying services using the park needed to obtain a NPS commercial use license (CUL), just as "new park" mountaineering guides did. For the first few years after ANILCA's passage, those who held CULs for air taxi and air tour services included Hudson Air Service, K2 Aviation, Talkeetna Air Taxi, and Lowell Thomas, Jr. During the early and mid-1980s, companies doing business in the park engaged primarily in pickup and dropoff services for Alaska Range mountaineers. By the late 1980s, however, flightseeing had become so popular that it was becoming a significant part of air tour companies' revenues. Some flightseeing companies offered visitors the opportunity to walk on an Alaska Range glacier, but many other tourist flights remained airborne outside of Talkeetna.158



The National Park Service Kahiltna Glacier base camp is established each spring at the beginning of the climbing season. The camp provides support for independent and guided climbing expeditions during the main climbing season. NPS Photo, Roger Robinson Collection

During this period, changes in the park guides were also being manifested on the north side of the Alaska Range. As noted above, horse-packer Berle Mercer had begun supplying mountaineers' expeditions beginning in the mid-1960s, and given the continued interest in north-side ascents, Mercer continued his service until 1981. Continuing in his stead was Dennis Kogl, a McKinley Park-based operator who had run commercial sled dog trips into the park since 1973 under the name Denali Dog Tours and Wilderness Freighters. Beginning in the winter of 1977-78, Kogl began to provide freight support to mountaineers who started their climbs on the north side of the Alaska Range. (See Chapter 8.) By 1982, he was considered an exclusive provider of dog sled transportation in the park.159 Kogl continued operating his business until 1985; in more recent years, others have stepped in to provide similar services.160

Climbing Management, 1979-1984

As noted above, the popularity of climbing dropped by more than 25 percent between 1976 (the popular bicentennial year) and 1977. Afterward, however, the numbers resumed their steady upward climb. By 1979 the number of McKinley summit attempts—533—was higher than it had been in 1976, and in 1983 more than 700 people registered to climb Mount McKinley. Not surprisingly, the weather for climbers was better in some years that in others, and perhaps for that reason, seasons that had a high degree of rescue activity, injuries, and deaths (1980 had eight deaths and 1981 had six, for example) alternated with years that had a relative lull in these areas. 1622 Years having a large number of rescues and

deaths, not surprisingly, brought on a spate of news articles. But every year brought the need for at least seven rescues, and the supposedly "safe" year of 1982, when there were no Mount McKinley climbing deaths, demanded sixteen. (See Figure 5.) Each year, therefore, brought forth editorials and letters to the editor calling for climbers to pay their own way by either posting a bond, obtaining insurance, or paying the NPS a fee.¹⁶³

During the late 1970s, climbers started pressuring NPS officials to once again relax the agency's decade-old regulations. As noted above, a parkspecific regulation applied in 1970 called for all climbers to register before their ascent; to provide information on previous climbing experience; to submit physician's statements certifying the physical fitness of each mountaineer; to have each party carry a two-way radio; and to require a member of each party report to park headquarters after the climb.164 But in the fall of 1979, the Alaskan Alpine Club began to lobby for fewer regulations. The NPS recognized that climbing was no longer an isolated activity. They also knew "that better and more sophisticated equipment, techniques, and clothing have reduced the need for regulated safety considerations." Furthermore, as an NPS official later stated, "we could find no correlation between the requirements and who did or did not get in trouble on Mount McKinley." In May 1980, therefore, it proposed to eliminate all park-specific regulations except for a pre-climb registration.165 Both Anchorage newspapers protested; the News noted that "the government does have responsibility to ensure that parties embarking on expeditions in a National Park meet some standards," while the more

conservative *Times* stated that "many taxpayers see stricter regulations as the key to reduced government costs." But as the Times also noted, "climbers hope the regulations ... are on the way out. Rules beget rules, and soon their freedom is gone, they say." It further noted that some climbers balked even at the minimal registration requirement, because "any sort of regimentation goes against the grain of those who are motivated to climb mountains."166 During the public comment period, several protested the relaxation of climbing regulation, and several also recommended requiring that "all climbers provide evidence of financial means or post a bond." NPS authorities felt that the Talkeetna-based rangers provided a sufficient technical role, and that "charging individuals for public safety services" was too all-encompassing to be addressed in such a specific rule. The final rule was implemented, as proposed, on December 26, 1980.167

During this period, rescue techniques were continuously modified and improved. In 1978, the military's High Altitude Rescue Team—which had been founded in 1972 and was based at Elmendorf Air Force Base—began training on Mount McKinley. The following year it rescued a Japanese climber from Mt. McKinley's 16,000-foot level, and the team continued its activities—from either Elmendorf or Fort Wainwright—for years afterward.¹⁶⁸

An equally important innovation was the commencement of a major health program. As a government report noted in late 1981,

The High Latitude Health Research Project of the University of Alaska Anchorage began what is hoped to be a several year medical research program on Mount McKinley this summer. ... a lengthy questionnaire ... was given to climbers as they returned from their climbs [which] dealt with such issues as type of equipment used, speed of ascent, weather conditions, and medical problems encountered. ... Although funding and logistical problems are not yet solved, the Project hopes to place teams of physicians on the mountain next year and in succeeding years. These teams will staff camps at the Kahiltna base camp and also at the 14,200 feet on the West Buttress during at least a major portion of the climbing season.169

The following year, medical personnel were indeed stationed on the mountain. During most of May and June 1982, teams of doctors staffed the two above-named camps, and "though their primary mission was to conduct medical research, the doctors also assisted numerous climbers with minor to major medical problems." The *Anchorage Times* lauded the teams, noting that "in at least two instances in 1982, lives were saved by doctors who were serving in these camps. ... [T]he stationing of a couple [of] physicians along the way seems like a good idea" and "should be considered for future seasons." The High Latitude Research Project (or Group) continued its valuable work



Dr. Peter Hackett's medical research program, based at the 14,200-foot camp on Mt. McKinley, also provided medical assistance to climbers in distress. NPS Photo, Roger Robinson Collection



The first NPS ranger residence in Talkeetna was this mobile home, located just west of the railroad tracks. Roger Robinson Photo

in 1983—a government report that year stated that "this research team was surely instrumental in saving several lives, and their presence on the mountain will be sought in coming years." A lack of funding after that season, however, forced the program's discontinuance. Worried that "without the HLRG camp, climbers [would] have to again take the responsibility to caution themselves," the NPS in 1984 set up a medical and rescue camp at the 14,200-foot level. Rangers established the camp that was operated by volunteer medical doctors and volunteer mountaineers. The camp proved "successful in reducing both the number and the costs of search and rescue incidents on Mt. McKinley." ¹⁷¹

The problems of garbage, which had been out of the news since the various University of Oregon climbs during the 1970s, re-emerged as an issue in 1983. An NPS overview outlined the problem in this way:

Over the last ten years, organizations and individuals in the climbing community along with the NPS have waged an intensive campaign to reduce the amount of litter on Mount McKinley. [W]e are satisfied that the mountaineers of today are climbing Mount McKinley with a much more sensitive ethic regarding litter and abandoned gear. But for the most part the question of human waste has not been dealt with. ... As the number of climbers keeps increasing, it becomes harder and harder to find

clean snow for cooking and drinking. So this year, the climbing rangers ... made a special point of urging all climbers to bag their human wastes and to dump the bags into deep crevasses [rather than burying them near often-used camps]. Plastic bags were provided by the NPS for those who needed them. [We] are confident that climbers in future years will be even more sensitive to the proper handling of human wastes.¹⁷²

In 1984, mountaineering rangers (according to their annual report) personally contacted "nearly all of the West Buttress climbers and emphasize[d] the importance of proper sanitation and trash removal practices." And, for the first time, the agency required all climbers to deposit human waste into crevasses (and not in hastily-dug pit latrines, as had previously been the common practice). Those measures—backed by a citation and \$250 fine issued to one non-complying European party—"seems to have made a significant contribution toward cleaner campsites." [173]

The NPS established a slightly stronger presence in Talkeetna during this period. After two years of makeshift operations in the local fire hall, rangers—courtesy of owner Jim Sharp—moved to the Talkeetna Air Taxi hangar. Then, in April 1980, the NPS obtained a five-year lease on a 1000' x 50' parcel just west of the Alaska Railroad tracks and just south of the old railroad depot.¹⁷⁴ Shortly afterward, NPS personnel moved a



East District Ranger Bob Gerhard directed the NPS mountaineering program from his post at park headquarters. Here, inside the trailer facility in 1983, he was preparing for a spring backcountry patrol. NPS Photo, Roger Robinson Collection

single-wide trailer from Fairbanks to the parcel, after which it was occupied by two seasonal rangers and a Student Conservation Association employee. Throughout this period, East District Ranger Robert Gerhard oversaw the park's mountaineering program. But in May 1984, Gerhard transferred to Lake Clark National Park and Preserve, and Robert Seibert, who moved to the area from Hawaii Volcanoes National Park, became the park's first South District Ranger (and the park's first year-round south-side employee). During midsummer 1984, Seibert opened up the agency's first Talkeetna

office in a log cabin it leased near Main Street and just south of the Fairview Inn. The cabin was owned by Roberta Sheldon and was locally known as the Genet Building, because guide Ray Genet and his clients had constructed it during the late 1970s. Beginning in the spring of 1985, NPS personnel used the building for climbing orientations.¹⁷⁶

New Regulations:

Their Context and Consequences, 1985-1995 In 1983, as noted above, the number of Mount McKinley climbers topped 700 for the first time.



In 1984 the NPS leased a cabin to be used as a ranger contact station. Shown center, the log cabin was located in downtown Talkeetna and provided an opportunity to contact climbers going to or coming from Mt. McKinley. NPS Photo, Roger Robinson Collection



Recognizing the importance of improving foreign outreach, ranger Roger Robinson, in 1982, provided orientation to a Japanese climbing group at the 14,200-foot camp. NPS Photo, Roger Robinson Collection

The mountain's popularity dropped modestly for the next two years (in 1985, 645 people tried to summit the peak) but they rose quickly for the next three years, and in 1989 more than a thousand people headed up Mount McKinley's slopes. And for the next several years the mountain remained popular, consistently attracting more than 900 climbers per year.¹⁷⁷

The great majority of those climbers got up and down the mountain safely and without incident. But in every year save one, one or more lives were lost on its slopes. 178 And every year both the NPS and the military were called on to conduct numerous rescue operations. The military absorbed (and did not detail) its annual rescue costs, but the NPS, which was more forthcoming, spent tens of thousands of dollars each year on Mount McKinley rescue operations. These costs, as in previous years, caused some taxpayers to conclude that because mountaineering (as noted in one news article) was "purely a self-centered recreation, with few practical social benefits," climbers should therefore have to pay their own rescue bills. Others, however, argued that rescues for mountaineers should be treated no differently than for boaters or recreational pilots; the cost of mountain rescues, in this context, paled by comparison. A May 1988 search for seven Gambell walrus hunters, for example, cost the Coast Guard and the Alaska Department of Public Safety more than \$1 million, and a May 1992 search for five fishermen lost in a Cessna near Yakutat cost the Air National Guard more than \$1.1 million.179

Throughout this period, the NPS worked with others to maintain a camp at the 14,200-foot level of Mount McKinley. Funding for the High Latitude Research Project (also known as the Denali Medical Research Project) proved spotty—it operated in 1985 and again in 1988-89 before closing down—and the NPS did what it could to assist Dr. Peter Hackett in his work. Rangers occupied the site as well, during years when the research camp was both active and inactive, because their presence at the site allowed them "more reliably able to determine" if rescues were really needed. To assist rangers with their rescue work, the NPS in 1987 installed a rescue storage box at the 17,200-foot level.¹⁸⁰

Park Service rangers, during this period, recognized that foreigners accounted for a disproportionate number of search-and-rescue incidents. More specifically, foreign climbers in 1986 comprised about 25 percent of all climbers but 90 percent of search-and-rescue operations. To improve its foreign outreach—which until then had been limited to German and Japanese mountaineering brochures—agency staff prepared German, Japanese, and English-language slide/ tape programs on climbing safety and ethics. And the following year, similar programs were made for French- and Spanish-speaking climbers. The NPS continued its outreach efforts through periodic updates of its foreign-language mountaineering brochures, both in the late 1980s and the mid-1990s. Rangers also carried on correspondence with foreign climbers' organizations, including groups in Korea. But after

several Koreans died on the mountain in 1992 (see below), the agency sent ranger J.D. Swed on a well-publicized nine-day trip to Korea, where he warned climbing groups about the mountain's difficulty and urged caution.¹⁸¹

After the disastrous years of 1980 and 1981, which recorded eight and six deaths respectively, the following decade witnessed two difficult years: 1986, with four deaths, and 1989, with six. None of these deaths produced more than incidentspecific press coverage. In 1990 the NPS, working with Alan Ewert of the U.S. Forest Service, surveyed climbers on how Mount McKinley should be managed. What provoked the survey, however, was not the 1989 deaths but instead the thousand-plus climbers on the mountain that year, because the survey's purpose was "to determine users' perceptions of sanitation, trash and crowding issues." Bob Seibert, asked in 1990 about the survey's repercussions, stated that rangers might try to steer climbers away from the May-June peak season, and "eventually" the agency might need to institute a permit system on the mountain, particularly on the West Buttress route.182 The study's results, however, were surprising. Seibert stated that "although there is obvious room for improvement, the study showed that trash, sanitation and crowding are still within acceptable limits for most Mount McKinley users."183

The public's attitude toward mountaineering safety changed abruptly in 1992 when eleven people died on the slopes of Mount McKinley. Among them were two Italians, a Swiss, three

Koreans, four Canadians, and one American guide: the well-respected mountaineer Terrance "Mugs" Stump. The large number of victims—three more than in any previous year—plus Stump's prominence among climbers provoked a major press reaction, with articles in both local newspapers and in major magazines such as *Newsweek* and the *Economist*. 184

In the inevitable postmortem that followed these deaths, commentators traced three to inexperience, with one article noting that "some have never even climbed before." Inasmuch as foreigners had accounted for more than 90 percent of recent deaths, South District ranger J.D. Swed stated that many felt they could "do" McKinley in a week and thus didn't bring the food and equipment needed to survive extended weather delays. But the other eight who died, like Stump, were well-equipped and experienced. One factor that did not play a role in the deaths was the combined rescue effort, which included 22 rescues. As the Newsweek writer noted, "The death toll could easily have doubled but for intrepid rescues by National Park rangers, who plucked two climbers from crevasses and evacuated half a dozen others."185 The NPS that year spent some \$206,000 rescuing climbers and removing bodies from Mount McKinley, and the military expended an additional \$225,000. The lion's share of the NPS's expenses—about \$180,000—were fixed costs associated with having an Aerospatiale Lama high-altitude helicopter on standby at the Talkeetna airport.186 The agency had first arranged for the helicopter—and had first borne the



Denali's first full-time South District Ranger, Robert Seibert, on the phone, coordinated the winter rescue of three missing Japanese climbers in 1989. Regional Public Information Officer, John Quinley, right, prepares for a media statement at the Talkeetna trailer. NPS Photo, Roger Robinson Collection



A Lama high-altitude helicopter was first contracted in 1991 to stand by for administrative and rescue work in Denali National Park. That year a Korean climber with altitude illness was evacuated from the 14,200-foot camp and taken to the Kahiltna Glacier base camp for further transport. NPS Photo, Roger Robinson Collection

higher costs—during the 1991 climbing season. The move was necessary because the U.S. Army, due to Persian Gulf war commitments, was unable to supply a Chinook helicopter, as it had for more than a decade. After 1992, rescue costs remained high; in 1995, for example, the NPS spent \$126,000 and the military another \$292,000.187

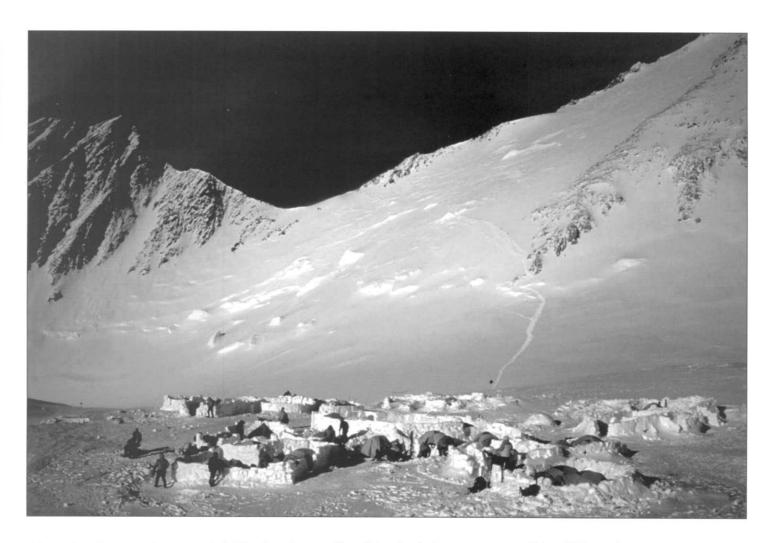
The 1993 climbing season proved a pleasant contrast to the events of the previous year. Just one person died, and only 14 needed to be rescued. 188 Officials in the new Clinton administration, however, felt that the \$190,000 spent on those rescues (and similarly high costs at other parks) was too high. On August 31, the NPS announced that it was working on a nationwide plan to have climbers and other adventure travelers pay their own way by requiring either a bond, fee, or rescue insurance. The plan would be tested during the spring of 1994 at two national parks: Mount Rainier in Washington and Denali in Alaska. If the plan proved successful other risk takers, such as kayakers and hang-gliders, might face similar charges in the other fifty national parks. 189 The new costs were justified by Assistant Interior Secretary Bonnie Cohen, who stated that

A basic level of public safety should clearly be provided by government,

but the increasing participation in high-risk recreation has pushed the cost of search and rescue to record levels. We want the Interior Department to be the leader in finding fair methods to provide for search and rescue capabilities in our parks without bankrupting other missions, such as resource protection and visitor service.

Cohen's boss, Interior Secretary Bruce Babbitt, justified the new fees within a larger context; just as grazing fees were being raised and below-market timber sales were being phased out, the person who used the outdoors for sport might need to pay more. And given the fact that climbers paid an average \$4,249 for their expedition (according to an NPS estimate that year), the proposed fee was relatively modest. But climbers, not surprisingly, hated the idea; they protested that levying a fee on climbers (but not on hunters or private pilots) was unfair, and as one journalist noted, "most climbers would prefer the government simply get out of the rescue business and get rid of the standby helicopter." 190

In October 1993, NPS officials announced that they would delay the fees for a year; they admit-



This overview of the 17,200-foot camp shows the most extreme established camp on the West Buttress route of Mt. McKinley. The NPS attempts to maintain a ranger presence at this location to assist climbers suffering from the debilitating effects of altitude, cold and high winds. The trail leading out of camp climbs to Denali Pass, a section of the route with a high accident rate. NPS Photo, Roger Robinson Collection

ted at the time that specifics of the plan had not yet been worked out. But by early March 1994, Cohen had worked out the remaining details. Each climber, according to the plan, would be required to pay a \$200 fee. A month later, the NPS held a series of April public meetings; at those meetings, climbers told officials that they were just as dissatisfied with the plan as they had been the previous September. As a practical matter, however, the NPS needed the additional revenues; as climbing ranger J.D. Swed later remarked, "With increasing numbers of climbers and decreasing budgets, the NPS designed this program to share a portion of these costs with those who benefit directly from the service provided."191

The NPS, over the next six months, reconsidered the matter and decided to reduce the proposed fee (that would apply to both Mt. McKinley and Mt. Foraker) from \$200 to \$150. Late that fall, when it became known that the fee would be imposed, the American Alpine Club threatened a lawsuit over the matter, noting that billing climbers without similar charges for backpackers, rafters, kayakers and others was clearly discriminatory. Despite that threat, the NPS issued a regulatory notice for its "new mountaineering

program" in mid-December 1994; it stated that the fee would be imposed for the 1995 climbing season. 192 The fees were justified as follows:

The fee ... will help offset mountaineering administrative costs associated with prepositioning and maintaining the high-altitude ranger camp at 14,200 feet on the West Buttress route, mountaineering patrol salaries, education materials aimed at reducing the number of accidents, transportation and supplies. The cost of administering the international mountaineering program (climbers represented 23 countries in 1994) has increased over the past several years and consumes a disproportionate amount of the park budget. 193

The fees were imposed as scheduled, and the NPS collected \$159,925 from climbers that year, followed by approximate revenues of \$152,000 and \$159,000 in 1996 and 1997, respectively.¹⁹⁴

As part of its December 1994 notice, the NPS also included language requiring all climbers to register at least 60 days prior to their expeditions. 195



Guides work to prepare their clients for climbing Mt. McKinley by practicing skills such as crevasse rescue. Brian Okonek Photo

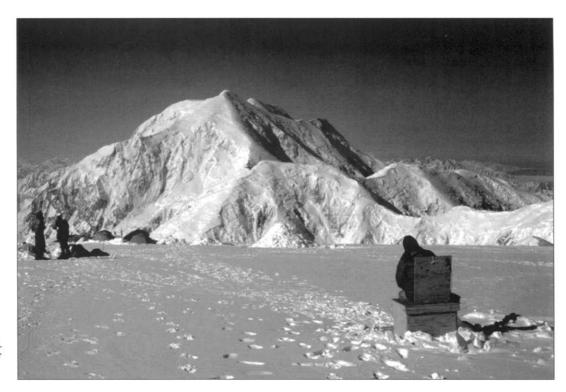
In an attempt to enforce this provision and make it effective for the 1995 climbing season, the agency issued an interim rule on the subject on March 31, 1995, just a few weeks before the climbing season began. The rule was to have become effective immediately. But because of the late issuance date for both the notice and the interim rule, many foreign climbers were unaware of the early-application deadline, and in response, the NPS waived the requirement for 1995. That September, the agency issued a proposed (permanent) rule regarding both the fee and the 60-day preregistration. No one responded during the public comment period, so in February 1996 the agency published a final rule, which became effective on March 25.196 Rangers that year made a "lenient transition" toward both the fee imposition and the 60-day requirement; beginning in 1997 both rules were strictly enforced.197

Between the mid-1980s and the mid-1990s, modest changes were made in the regulation of the park's guides. As noted above, the number of guides operating in the "old park" was limited beginning in the 1981 climbing season, and for more than a decade the NPS issued just seven mountaineering permits per year. Outside of the old park, the number of annual CULs issued to guiding companies was more fluid; between 1985 and 1995, the number of such companies was as high as fourteen or as low as two. During this period, guides led about 30 percent of Mount McKinley climbers. 198

Most guiding companies, in both the old and new parks, played by the rules and had no problem

obtaining their annual permits or licenses. But during the late 1980s, Genet Expeditions began to come under scrutiny. This company, as noted above, was one of six that had been awarded an Old Park concessions permit during the winter of 1980-81. The company, formerly based in Talkeetna, was purchased by Harry Johnson of Anchorage in 1983. Johnson, with little difficulty, renewed the company's four-year permit during the winter of 1984-1985 and again during the winter of 1988-89.199 In addition, the company received a CUL for New Park guiding beginning in 1985 and continuing for the remainder of the decade.200 By the early 1990s the company which offered the services of such well-known climbers as Vern Tejas, Dave Staeheli, and John Michaud—was guiding 13 to 15 expeditions, with about 60 to 90 clients, each season. But both NPS rangers and rival guide services were criticizing the firm (according to one account) because of "its aggressive promotions and for being too gung-ho" about reaching McKinley's summit. In 1988, a Genet client had died soon after summiting the peak, in part because her guide was inadequately prepared. The NPS, in response, gave the company an unsatisfactory rating that year. But the company allowed this "pattern of unsafe practices" to continue, and it received poor NPS evaluations in both 1989 and 1991. Given the company's 1991 performance, the NPS revoked Genet's concession permit in January 1992, effective immediately.

Johnson, Genet's leader, appealed the revocation, calling it "arbitrary, subjective and unsubstantiated." ²⁰¹ But in mid-March, NPS Director



In 1985, the pit toilet at the 14,200foot camp on the West Buttress of Mt. McKinley provided quite a spectacular view. NPS Photo, Roger Robinson Collection

James Ridenour denied the appeal and noted that his decision was "the final administrative decision in this matter." A month later, the firm filed suit against the NPS in district court over its 1991 NPS evaluation. In early May, Judge James Singleton ruled that while the NPS may have treated the company unfairly, the "ultrahazardous" activity in question gave the agency the authority to rule against guides in order to protect climber safety. Later that year another judicial decision reinstated the company's permit, but it was a Pyrrhic victory inasmuch as the permit was set to expire in December 1992. Later that year another in was set to expire in December 1992.

Late in 1992, NPS officials advertised for a seventh permittee and chose Alpine Ascents International (AAI), operated by Todd Burleson of Woodinville, Washington. AAI was awarded the permit in 1993. But because this award was not in time for the year's climbing season, the practical effect of the NPS's award was that the park had six active mountaineering permittees in 1992 and 1993 but seven permittees in 1994.

In mid-November 1993, not long after the AAI received its permit, Bob Jacobs—who owned a company that had not been chosen—filed suit against the NPS, because he believed that the selection process had been unfair. In mid-June 1994, District Court Judge John Sedwick ruled on the matter. He stated that the NPS's selection had been "arbitrary" and "capricious." In a surprising twist, however, he voided AAI's permit because Burleson—apparently unbeknownst to NPS authorities—had been an illegal guide on Mount McKinley in June 1992, just before he had

applied for the concessions permit. Sedwick, therefore, stated that "the award to AAI must be sent back to the Park Service for further consideration." In July 1994, Sedwick gave the NPS three options on how to proceed, one of which stated that the agency could "proceed for the time-being with one fewer concessioner." The NPS, in response, decided to not advertise for a replacement. Since that time, just six companies have guided clients up Mount McKinley and Mount Foraker.206

Burleson, it turned out, was not the only illegal guide on the mountain during this period. One guide was cited for illegal guiding in 1991, and in 1993 "several" miscreants were on the mountain, two of which were cited and fined a total of \$9,100. A year later the NPS cited Rainer Bolesch, who was leading a group of 14 clients up the mountain, and deported him back to Germany, and that same year, Wayne Mushrush-a former Genet guide—was arrested for illegally guiding two Georgia men up the mountain. The men, moreover, were only part of a larger problem; as ranger J.D. Swed noted, "We've got a couple [of other people] that we're pretty convinced are guiding, and a couple we're not sure." Swed and other NPS officials were well aware that "bandit guides" had been operating on the mountain for years—perhaps as early as the mid-1980s—but 1994 was the first time in several years that the agency decided to crack down on the practice.207

Given the ever-increasing parade of climbers up McKinley each spring, the management of



In 1991 the suggested treatment for human waste was to bag it in biodegradable plastic bags and deposit it in a deep crevasse. NPS Photo, Roger Robinson Photo

garbage—both trash and human waste—was a continuing problem area. Before the 1980s, the only latrine on the mountain was at the Kahiltna base camp; it had been installed in 1977. But between 1982 and 1989, managers demanded the installation of latrines at the 14,200-foot camp, in the Sheldon Amphitheater, and at the 17,200-foot level.208 A report by climbing ranger Bob Seibert in 1989 warned that it was "more important than ever for mountaineers to properly dispose of their human waste to prevent the contamination of snow. ... When moving camp, tie the bags off and toss into a deep crevasse. The use of biodegradable plastic bags is recommended." And regarding rubbish disposal, he wrote that "many expeditions are hauling their trash to base camp where it is flown off the mountain. Still others continue to crevasse their trash. ... Mountaineers of all nationalities must take the responsibility for, and the initiative in, preserving the quality of the world's mountain environments. A combination of education, leading by example, and peer pressure are probably the most effective tools...." Seibert, in another article, noted that foreigners appeared particularly negligent about packing out their garbage because they had traditionally littered and abandoned their gear during expeditions.209 His advice, repeated in later years, apparently worked; by July 1991, he was able to state that the mountain was cleaner than at any time in its recent history. In order to effectively manage the problem, his successor J.D. Swed experimented in 1993 with the removal of human waste in barrels by helicopter from the various mountain camps. (The NPS also issued citations for littering in both of those years.) In

1995, Swed dispatched two rangers to the Kahiltna base camp area for trash removal, human waste cleanup, and crevasse-marking duties.
Rangers continued these duties in the years that followed.²¹⁰

As noted above, NPS Talkeetna-based rangers during the mid-1980s lived in a mobile home near the town's railroad depot, and they worked at the rustic Genet Building, just south of Main Street near the Fairview Inn. Shortly after the NPS occupied this new office, tourists began visiting the facility. To cater to their interests the agency installed an interpretive kiosk just outside the building, and an Alaska Natural History Association outlet opened there, operated by a seasonal staff person. In 1990, the NPS replaced the trailer with a new two-storey residence, which was now on land owned by the stateowned Alaska Railroad. (See Chapter 9.) After it was completed, it served as a district ranger's office as well as a seasonal rangers' residence. The agency, by 1984, also added a rescue cache, in a Conex trailer, which was located on a separate parcel just north of the ranger residence.211

Seibert continued serving as the South District Ranger until the fall of 1991, when J.D. Swed replaced him. An administrative assistant was added to the agency's workforce soon afterward. In 1995, two rangers were added to establish a greater presence at the Kahiltna base camp for the various cleanup duties noted above; each year since then, a ranger has spent most of each climbing season at the Kahiltna base camp engaged in a variety of duties.²¹² The NPS,



NPS rangers experimented with different methods of managing human waste on Mt. McKinley. Roger Robinson, in 2000, loaded a commercial river toilet tank onto the first fixedwing flight commissioned by the NPS to transport human waste from the Kahiltna Glacier base camp to Talkeetna. This flight carried three tanks, holding the accumulated human waste from a 3-week ranger patrol on Mt. McKinley, demonstrating the feasibility of removing human waste from the mountain. NPS Photo, Roger Robinson Collection

during this period, considerably beefed up its staff; whereas the agency's only presence in 1984 was the South District Ranger along with three seasonal mountaineering rangers and a Student Conservation Association (SCA) employee, and civilian mountain-patrol volunteers, new permanent personnel were added in 1990. By 1995 the agency had a district ranger, five mountaineering rangers, a four-person seasonal helicopter crew, an administrative technician, three fee collectors, an SCA employee, and more than 30 mountaineering volunteers from both the civilian and military ranks.²¹³

Recent Trends:

Rescue, Access, and Waste Management

The popularity of Alaska Range mountaineering soared during the 1970s and 1980s; the number of people each year attempting to climb Mount McKinley, for example, shot up more than 400 percent during the 1970s (from 124 in 1970 to 659 in 1980), and during the 1980s it increased another 50 percent or more (from 659 to 998 in 1990). Between 1990 and 1995 it climbed another 22 percent, to 1,220 climbers. Since 1995 the annual number of climbers has stabilized; it has ranged from 1,110 (in 1997) up to 1,340 (in 2005), with an average figure of about 1,210 climbers per year. ²¹⁴

Beginning in 1995, mountaineers attempting to climb either Mt. McKinley or Mt. Foraker were required to pay a \$150 fee to offset the costs of the park's mountaineering program. This fee, as specifically described in the December 1994 regulation, did not include rescue costs. Histori-

cally, the costs of rescues—to the NPS, to the State of Alaska, and to military authorities—had been largely dependent on the number of rescues performed and had typically totaled \$10,000 to \$50,000 per year. (See Figure 5.) But beginning in 1991, substantial new fixed costs had been added because the NPS had a contract to station a high-altitude Lama helicopter at Talkeetna during the three-month climbing season. The costs of helicopter rental was \$160,000 or more each year, to which were added incident-specific rescue costs (for the NPS) plus additional costs to the State of Alaska and the military. Because the cost of Alaska Range mountaineering rescues was a relatively small part of all Alaska rescue costs, it was widely recognized that the money spent on rescues—regardless of their cause—was a valid public expense.

An incident in June 1998, however, caused officials to reconsider the status quo. A party of six British climbers on Mount McKinley disregarded warnings and advice from park rangers; injured and sick, the six climbers had to be rescued by helicopter from the 19,000-foot level, and the cost of that rescue totaled \$221,818.215 This widely-publicized incident, which resulted in Denali's highest-ever rescue bill, caused Sen. Frank Murkowski, who chaired the Senate Energy and Natural Resources Committee, to take another look at rescue costs.216 As a Senate report noted,

As the mountaineering program at Denali [about \$742,000] accounts for almost one-third of the total cost of



The Talkeetna ranger trailer was replaced in 1990 by a new 5-bedroom residence on the same site. Tom Habecker Collection

the annual search and rescue activities for the entire National Park System, some have questioned whether such expenditures for a very small and select group of park users is appropriate, and whether some sort of reimbursement for the cost of rescues should be collected.²¹⁷

To find out more, Murkowski came to Anchorage in late August 1998 and held a committee hearing at the Anchorage Museum of History and Art. At that hearing were various NPS representa-

tives along with mountaineering guides, air taxi operators, and military officers in charge of search and rescue operations. At that hearing, it was recognized that the cost of McKinley rescue operations—both civilian and military—totaled roughly \$1 million per year. Murkowski, looking for ways to recoup some of those costs, asked the various witnesses if it was time to start requiring climbers to have insurance, post a bond, or pay a higher fee.²¹⁸

No consistent recommendations emerged from that hearing, so Murkowski sought counsel from



By 1995 the Talkeetna Ranger Station staff had grown considerably. Front row, left to right, are Joe Reichert, helicopter mechanic Stan Bridges with his wife and baby, and Daryl Miller; middle row, Miriam Valentine, 'Punky' Moore, Grete Perkins, Elaine Sutton, SCA Elena Hinds; and back row, Kevin Moore, Dave Kreutzer, South District Ranger J. D. Swed, Eric Martin, Helicopter Pilot Doug Drury, and Roger Robinson. NPS Photo, Roger Robinson Collection



On a typical afternoon in May 2001, one would see groups of climbers at the top of the headwall on the West Buttress route. The safety concerns about congestion in this area have contributed to an annual limit of 1500 climbers on Mt. McKinley. NPS Photo, Roger Robinson Collection

the Interior Department staff. On October 15, 1998, in the closing days of the 105th Congress, he introduced a bill calling for the Interior Secretary to "submit a report on the feasibility and desirability of recovering the costs of high altitude lifesaving missions on Mount McKinley in Denali National Park and Preserve, Alaska." The primary cost-recovery methods to be considered in the report would be either "proof of insurance or a bond that is sufficient to pay the costs of a rescue" or "proof of health insurance that is sufficient to pay medical and hospital costs of treatment for injuries that may reasonably be anticipated to be sustained on a climb."

The following March, Senator Murkowski submitted a new bill for the 106th Congress to consider. Slightly modified from the previous bill, it dropped previous language specifying a discussion of insurance or a bond. Instead, it had three provisions: to "report on the suitability and feasibility of recovering the costs of high altitude rescues on Mt. McKinley," to comment on the need for proof of medical insurance, and to "review the amount of fees charged for a climbing permit and make such recommendations for changing the fee structure as the Secretary deems appropriate." Murkowski held a May 13 hearing on the bill; at that hearing, Interior Department

official Stephen C. Saunders approved two of the bill's provisions, but urged the removal of the medical-insurance provision because "this is an issue between the private citizen, his family and his doctors," not the federal government. Despite his testimony, the Energy and Natural Resources Committee unanimously passed the original bill, which on June 9 was reported to the full Senate. On November 19, 1999 the full Senate passed it—still unamended—by unanimous consent. Action then moved on to the House of Representatives, where it was hurriedly passed on October 24, 2000, in the waning days of the 106th Congress. President Clinton signed the bill on November 9.²²¹

The bill stated that the Interior Department would have a report back to Congress on the matter within nine months of the bill's passage. In response, the NPS detailed Mount Rainier's lead mountaineering ranger, Mike Gauthier, to complete a mountain climber rescue cost recovery study. Gauthier worked with a variety of NPS staff as well as the American Alpine Club on the report, and he also gathered public comment from a wide variety of agencies and private organizations. The NPS completed the report, as required by Congress, in August 2001, and the Interior Department issued the final



In 1987, summer tourists, as well as climbers, were greeted at the log cabin ranger station in Talkeetna. NPS Photo, Roger Robinson Collection

report in early 2002.222 The agency responded to the report's three provisions as follows: 1) it recommended "that the current policy of not charging for search and rescue be continued," 2) it recommended "not requiring proof of medical insurance at this time," and 3) it stated that "an additional \$50.00 fee should be added to the current \$150.00 registration fee" and that all climbers in the park and preserve—not just those on Mount McKinley and Mount Foraker-should be required to register.²²³ The NPS made no immediate moves to raise fees or institute other regulations; it did, however, note that additional climbing fees could be expected in the nottoo-distant future. Thus it was not particularly surprising when, in 2005, fees were raised from \$150 to \$200 per climber.224

Parkwide planning efforts also began to impact Alaska Range mountaineers during this time. The park's 1983-86 general management plan, for example, made no attempt to regulate southside activities (instead, it encouraged greater use by both mountaineers and fly-in visitors), and the 1993-97 South Side (South Slope) Development Concept Plan similarly avoided any management actions related to mountaineering and glacier access.225 But during the 1997 climbing season, park managers recognized (see Chapter 10) that some regulation needed to be applied to the various air taxi and flightseeing tour operators that shuttled between Talkeetna and various glacier airstrips. They decided, therefore, to issue concessions permits rather than incidental business permits to the eight existing firms that carried on that

trade. Eight of these five-year permits were issued in 1997 and early 1998. The agency's action did not limit the total number of flights to and from the park's glaciers; it did, however, limit the number of companies that could continue these flights. ²²⁶ Due to mergers and attrition, the number of active air-taxi and flightseeing services in 2006 was just half that of 1998; in early 2007, the NPS issued ten-year permits to these four carriers. ²²⁷

Recognizing the problems associated with longterm growth in backcountry visitation—and more specifically in the number of climbers, snowmachiners, flightseeing tourists and air taxi patrons-park management in 1999 began to prepare a backcountry management plan. (Superintendent Steve Martin, who spearheaded the effort, candidly noted that "It isn't that we have a lot of problems right now, but we need to plan ahead to know where we're going.") Preparing the draft plan, as noted in Chapter 10, was subject to several delays, but by February 2003 park staff had completed and released the park's Backcountry Management Plan, General Management Plan, [and] Environmental Statement. As Superintendent Paul Anderson (Martin's replacement) noted somewhat later, the plan's purpose was to "describe the future for glacier landings, air taxi operators, the number of climbers on Mount McKinley and managing snowmachining in the park additions."228

The draft plan recognized the increased importance in several ways. All of the four action



Summer visitors have the option of flightseeing in the Alaska Range, and can also experience landing on a glacier. Tourism has grown in numbers and variety of opportunities. NPS Photo

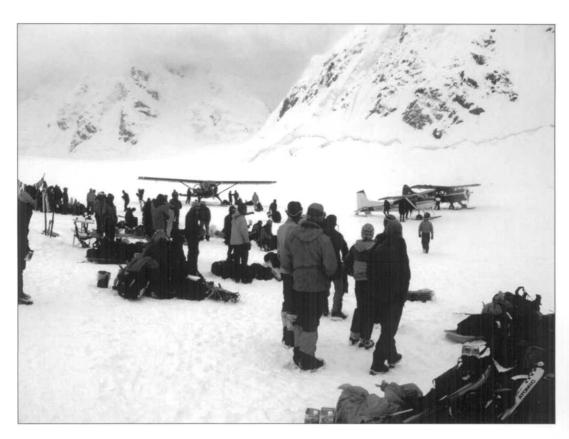
alternatives, for example, delineated the Kahiltna Glacier-West Buttress route up Mount McKinley as a 9,907-acre "mountaineering special use area" which allowed for "established climbing routes and administrative camps." (The intended "overall character" in that area "feels like a series of established wilderness camps connected by a trail - remote in location yet very social with many signs of human presence.") Visitors to that area might "encounter up to 200 climbers per day" between April and July.²²⁹ Aircraft noise, even at the highest elevations, was also a concern.230 In addition, all alternatives incorporated a series of "portal areas" and "climbing and mountaineering study areas" to encompass other popular glacier landing sites and climbing routes. The plan identified ten small portal areas, where relatively high use levels and interaction levels were anticipated; these areas were located within five larger-sized mountaineering study areas, where use levels—though lower than in portal areas—would be higher than in the surrounding countryside.231

Alternative D, the NPS's preferred alternative, stated that the agency would limit to 1,500 the number of annual permits it issued to Mount McKinley climbers. This limit was a compromise between a 1,300-permit limit (as recommended in alternatives B and C) and Alternative E, which set no annual limits. The plan made no limitations on where air taxi landings could take place in the New Park. Regarding scenic tour (i.e., flightseeing) landings, the alternative

stated that at three of the ten portal areas—Ruth Amphitheater, Kahiltna Base Camp, and Pika Glacier (in Little Switzerland)—the NPS "would allow higher levels of scenic tour use than would be true of the surrounding management area," and at Kahiltna Base Camp, there would be no limitation on the number of scenic landings. Scenic tour landings would also be allowed in many other areas south of the Alaska Range, though the NPS would work with flight services on "contract provisions to achieve desired resource conditions." ²³²

As noted in Chapter 10, NPS officials spoke with various major user groups about their opposition to the draft plan, some of whom represented mountaineering-related interests. Point-topoint air taxi operators were able to move from a series of prescriptive actions (as stated in the draft plan) to a series of desired conditions. And scenic air tour operators, who had grumbled that the NPS was on the verge of setting up a quota system, were able to work out a system in which their activities were governed by encounter rates and activity levels rather than simple volume. A final area of contention dealt with climbing. Here, language in the draft remained; American Alpine Club leaders, despite initial protests, came to recognize that an annual limit of 1,500 climbers made sense.233

In April 2005, the agency released a revised draft of its backcountry management plan. This plan, consistent with the draft, had a 9,907-acre West



This 2007 photo shows the Kahiltna Glacier base camp as a busy airport, with aircraft arriving and departing and climbers waiting for flights. NPS Photo, Roger Robinson Collection

Buttress Special Use area that provided a "seasonal route to the summit of Mount McKinley that can accommodate large numbers of climbers during the primary climbing season." The revised plan retained a 1,500-climber annual limit for Mount McKinley. As to air access, it stated that the agency "would impose new registration requirements only in areas where use levels are sufficient enough that user conflicts and/or resource damage are occurring" or were likely to occur. The plan, moreover, stated that "it is likely that overnight use and winter day use from the Kahiltna Glacier east would meet these criteria in the near future." Air taxi landings would be allowed throughout the New Park, but scenic air tour landings would be allowed in all of the portal areas that had been identified in the draft plan. Landings would not be restricted at the Kahiltna Base Camp, but only if landings took place before July 1. Finally, the plan beefed up its wilderness management recommendations by adding a detailed climbers' guidance on the use of fixed and removable anchors.234

The final backcountry management plan, which was issued in January 2006 and became effective in mid-March, was virtually identical to the revised draft as it pertained to mountaineering and Alaska Range aircraft access. ²³⁵ The approval of that plan had few immediate impacts. Later that year, the NPS announced that beginning in 2007, it would begin enforcing the 1,500-climber limit on Mount McKinley. This was not expected to have any short-term implications, however,

inasmuch as the annual number of climbers had stabilized in recent years and had not yet exceeded 1,350.²³⁶ Another by-product of the plan's passage was that glacier tour operators' flights would be limited to a 9 a.m. to 9 p.m. window and that landings would be allowed only in previously-popular areas. The NPS, however, spent considerable time with the Talkeetna air services on these changes, the results being that the limits merely codified standard business practices.²³⁷

The problem of trash and human waste, which had been a focus of NPS concern since the 1970s, has been attacked in new and innovative ways in recent years. As noted above, NPS rangers during the 1980s responded to the growing number of climbers (and what they left behind) by instituting a formal orientation to climbers at the agency's Talkeetna Ranger Station; by providing booklets in several languages encouraging a "pack it in-pack it out" philosophy; by installing pit toilets on the mountain (in 1982 one had been installed at the 14,200-foot camp, plus another in 1989 at the 17,200-foot level, to supplement the 1977 facility at the Kahiltna base camp); and by levying littering citations. By the late 1980s, mountaineering rangers were asking climbers to haul their trash back to base camp, and they were asking climbers to deposit human waste in biodegradable plastic bags and discard them "into a deep crevasse." Given these measures, climbing ranger Bob Seibert stated in 1991 that the mountain was cleaner than at any time in its recent history.



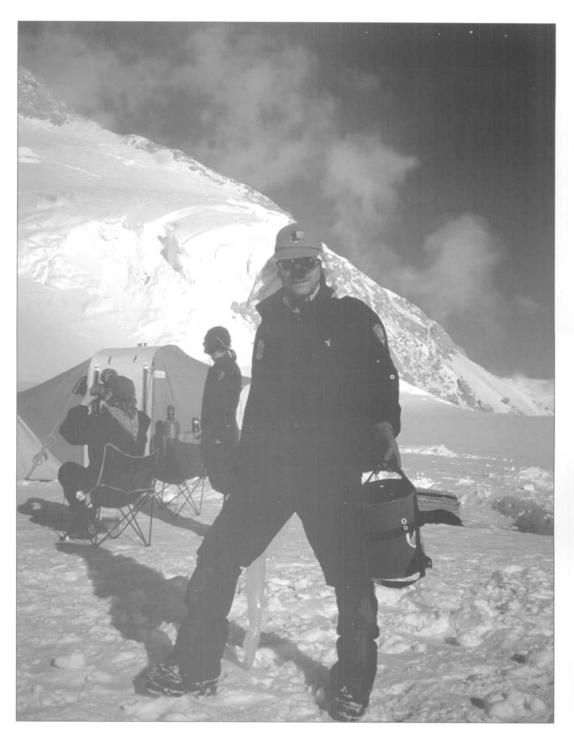
A common sight on the West Buttress route in recent years, this line of climbers is ascending the steepest, most difficult section of the West Buttress headwall between 15,500 feet and 16,200 feet. The fixed ropes are now managed by the National Park Service for use by all. NPS Photo, Roger Robinson Collection

But the ongoing crush of climbers—more than a thousand per year, the great majority of them along the concentrated West Buttress route—demanded additional measures to fully address the problem. In 1995—thanks to the fee-based revenue-new versions of the park's mountaineering brochures (last produced in the late 1980s) became available in Korean, Italian, and Russian as well as German, French, Spanish, Japanese, and English.238 Those booklets, produced by the Alaska Natural History Association, asked climbers to carry all litter and garbage off the mountain, to leave no permanent food or supply caches, to carefully protect temporary food caches (primarily from damage caused by ravens), and to remove all privately-installed fixed climbing lines.239

Most climbers, in response to the new booklets, took the anti-littering message to heart. But some—particularly foreigners—paid scant attention to it, and rangers in 1995 reported that "trash, left by inconsiderate climbers, is found along the West Buttress route especially on the lower glacier. ... It is mandatory to pack out all trash, extra food and fuel." This trash buildup forced rangers, in 1996, to remove some 2,000 pounds of debris from the lower Kahiltna, and

in 1997, one mountaineering patrol cleaned up more than 700 pounds of garbage from the 14,200-foot camp alone. Recognizing that much of the generated trash consisted of one-gallon fuel cans, a Prescott College student named Eric Remza looked into the problem during the summer of 1998 and discovered that almost one-third of all expeditions left at least one fuel can on the mountain. NPS rangers, in response, initiated a mandatory fuel-can return system in 1999, and more than 90 percent of those surveyed complied with the new rule.²⁴⁰

Encouraged by these results, and hoping to do much more, Denali rangers in 2000 initiated a comprehensive trash and human waste management program. To each climber, they distributed blue plastic bags (to be used for garbage) and clear plastic bags (to be used for human waste). In order to monitor climbers' garbage, rangers weighed climbers' food at the beginning of each ascent and then weighed the climbers' trash and remaining food upon their return. Rangers quickly discovered (according to their annual report) that "trash return rates improved simply because of the increased attention" paid climbers by NPS staff. "Rangers reported a significant decrease in garbage found in the popular camps," it

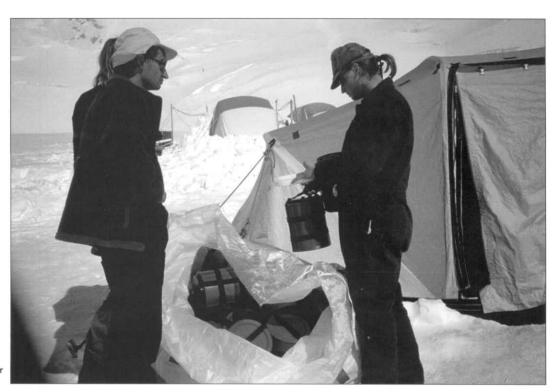


Lead Mountaineering Ranger Roger Robinson holds a Clean Mountain Can, the second model produced, in 2002. This particular CMC had been dropped by accident from the West Buttress headwall and had fallen and rolled over 2000 feet, surviving without damage, proving the durability of this newly-invented container. NPS Photo, Roger Robinson Collection

noted, "and Denali appeared to be much cleaner than in years past." The following year, this process was applied more broadly, both to trash and to fuel cans. The data collected in 2001, in turn, gave rangers the information they needed so that future expeditions could package their food in order to minimize waste. ²⁴¹ Rangers, in later years, continued to require that climbers haul all of their garbage back to the Kahiltna base camp, and after the 2003 season, they noted that they "generally had very good compliance." ²⁴²

As to human waste, most climbers in 2000 were asked to use clear plastic bags, which could be "slotted" into crevasses. That same year,

however, mountaineering ranger Roger Robinson implemented a new idea: the use of plastic, rectangular containers that could serve as a portable toilet. These boxes were already in use for river travelers, and to test the concept on the mountain, he asked four staff volunteers to try it out during a 20-day patrol. He discovered that the system, while not perfect, was feasible for more large-scale use. ²⁴³ During the following winter, Robinson worked with a manufacturer on an improved concept, and together they worked out the lighter, smaller, and cylindrical Clean Mountain Can (CMC). With a \$2,400 grant from the American Alpine Club, 50 prototype canisters were produced, which was sufficient to supply



Joe Reichert (right) provides Clean Mountain Cans to climbers at the 14,200-foot camp. NPS Photo, Roger Robinson Collection

21 expeditions during the 2001 climbing season. Most of these groups headed up the West Buttress, and a few took CMCs all the way up to the 17,200-foot "high camp." The response from users that year was generally positive; as Robinson noted, "There's no question it's a doable thing." The cans, he stated, were "the way of the future."²⁴⁴

Robinson recognized that the 17,200-foot "high camp" was one of the most heavily-impacted human waste areas on the mountain, even though a latrine had been located there since 1989, and climbers knew that the site was "exceptionally filthy." To prevent further deterioration at the camp, he required all climbers using the camp for a 20-day period during 2002 to use a CMC.²⁴⁵ In order to implement the new requirement, the NPS purchased 220 of these cylinders and distributed 150 of them at the rangers' 14,200-foot camp during a 30-day trial period. It proved so popular that in 2003, almost every climber who visited "high camp" brought along a CMC, and the idea also gained wide support from several of the commercial guiding firms. By the end of the 2003 season, Robinson was able to report that "at the 17,200-foot high camp, the human impact on this desolate location has significantly improved. ... the trash has been eliminated and ... almost all human waste is carried off." Indeed, the high camp latrine was itself hauled away that year.246

Emboldened by the success of the program thus far, the NPS rangers decided to purchase hundreds of new CMCs and distribute them during the 2004 climbing season to all climbers at either the Kahiltna base camp (for West Buttress climbers) or Talkeetna (for those attempting other Alaska Range climbs). The experiment proved less than successful, however, because some West Buttress climbers cached their CMC during their ascents. Rangers, as a result, decided to go back to their earlier pattern of distributing them at the 14,200-foot camp to ensure their use on Mount McKinley's higher slopes.²⁴⁷

In 2006, NPS rangers started distributing CMCs in Talkeetna as part of the check-in process; since that time, climbers have been asked to keep the cans throughout their trek and return them to Talkeetna afterward. The park's backcountry management plan, which was approved in February of that year, stated that climbers would be required to use CMCs for all human waste above 14,200 feet elevation on the West Buttress route and within one-half mile of air taxi landing sites. A compendium entry issued in 2007 was even more comprehensive. It required that West Buttress route climbers deposit all waste in a container; below the 15,000-foot level, waste could be bagged and tossed into a crevasse, but above that elevation, CMCs were necessary for all human waste.248

These two major efforts—to eliminate litter and human waste—were remarkably successful in cleaning up Mount McKinley, particularly the West Buttress route, and a number of longtime climbers provided testimonials to how clean the route was in comparison to climbs during the 1970s and 1980s. Rangers were only too aware,

however, that some climbers still did not seem to be environmentally aware. (Robinson, in 2003, noted that "some climbers still pollute—although those caught are fined 100 dollars.") Sanitation and garbage would always be a concern because, according to Robinson, "if the Park Service wasn't there to police people, they'd go back to their old ways." And, indeed, experience in recent years has underscored the fact that many mountaineers—perhaps due to their sheer exhaustion from climbing—are unlikely to keep high-altitude camps clean without the prodding of either a guide or ranger.²⁴⁹

Finally, recent years have also witnessed the establishment of a fully functional facility which integrated the needs of Alaska Range climbers, the park's south side visitors, and park staff. As noted above, Talkeetna-based NPS rangers had lived in ad hoc, temporary quarters until 1983 when it was able to lease Ray Genet's log cabin: rangers moved into the facility in 1984 and began using the site for both mountaineering orientation and visitor contacts in the spring of 1985. The cabin, however, was "definitely Alaskan" and substandard; it was heated with a woodstove and had neither plumbing nor an outhouse. Rangers, during this period, lived in a singlewide trailer near the Alaska Railroad tracks. But during the late 1980s, NPS officials recognized the need for more substantial facilities. In 1990, the agency built a new, two-storey residence on its parcel near the railroad, and when completed, it served as the district ranger's office as well as a residence. Meanwhile, the agency was also moving to secure a more substantial facility to

replace the Genet cabin. In fiscal year 1989, the NPS allotted funds for purchasing a site for a future Talkeetna "visitor contact center." Interest initially focused on purchasing and improving the property containing the Genet cabin. 250 But in June 1990, Talkeetna resident Phillip Wallona told NPS officials of his interest in selling a 22,500-square-foot (0.48-acre) three-lot tract at the northeast corner of First Avenue and B Street. In December 1990, joint owners Phillip and Judy Wallona accepted the Park Service's \$74,500 offer to purchase the property, and the formal property transfer took place on August 16, 1991. 251

During the period that the Wallonas and the NPS agreed to terms, planners in the agency's Denver Service Center were working on a document that might have brought a much larger visitor facility to the Talkeetna area. As noted in Chapter 9, planners issued a preliminary version of the so-called South Slope Development Concept Plan in late 1990; that plan, among its other provisions, envisioned a visitor center either in Talkeetna or within Denali State Park. Then, in March 1991, planners completed a draft environmental assessment that proposed a \$15 million, 14,000-square-foot visitor center on a bluff about a mile south of Talkeetna. Many local residents were opposed to the visitor center; more than 500, in fact, signed a petition asking the agency to place the facility elsewhere. In February 1992, the NPS issued an "alternatives workbook" for the plan. That workbook offered four alternatives, one of which recommended a Talkeetnaarea visitor center.252



The new Talkeetna Ranger Station opened in the spring of 1997. It provides offices for the Talkeetna NPS staff, areas for mountaineer orientation and visitor contacts, and a base for search and rescue operations. NPS Photo



First hired by the NPS as a permanent mountaineering ranger in June 1991, Daryl Miller became the South District Lead Mountaineering Ranger in 1997, in charge of all mountain operations. Daryl, pictured here on the West Buttress of Mt. McKinley in 1998, became the South District Ranger in 2000. Daryl Miller Collection

Despite continued opposition, the NPS in May 1993 released its draft South Slope Development Concept Plan. The agency's proposed action called for the immediate construction of a 10,000-square-foot visitor center elsewhere combined with the possible future construction of a 16,000-square-foot visitor center near Talkeetna, "but only if the need for a south slope hotel/recreational complex there was clearly established."253 Of those opposed to the plan, those most vehement were Talkeetna-area residents, who loudly denounced any plan that included a visitor center or hotel in their midst. So strong was their opposition that park superintendent Russ Berry agreed to proceed no further with the south slope planning process, and serious discussion of a major Talkeetna facility evaporated soon afterward.254 The ongoing visitor center proposals made Talkeetna residents understandably wary of the NPS's intentions, and in response the agency assured residents that the proposed facility at the west end of the Talkeetna townsite would be a mountaineering center and not a general-purpose visitor center.

Throughout this period, the NPS tried to secure construction funding for the center. In 1993, Superintendent Berry glumly reported that "construction of the mountaineering contact station ... fell behind schedule [this year] and must be now readied for 1995." Meanwhile, design work was well underway by early 1994, and in 1995 the NPS awarded a contract to Wolverine Supply, Inc. of Wasilla. Construction began later that year.²⁵⁵ Thanks to the efforts of NPS architect

Brad Richie, the "spacious and functional new building" was completed in December 1996 (see Chapter 11). The following spring, the center opened its doors to both climbers and the public, and on June 6, Bradford and Barbara Washburn brought a crowd to the center to help celebrate the 50th anniversary of Ms. Washburn's Mount McKinley conquest as part of "Operation White Tower." ²⁵⁶

The Talkeetna Mountaineering Center, known more informally as the Talkeetna Ranger Station, quickly became popular with both mountaineers and other tourists, and before long the NPS recognized the need for an adjacent parking area. In 2002, it had the opportunity to purchase property just north of the Wallonas' original parcel. James and Susan Kellard offered the NPS an 8,750 square foot (0.20-acre) tract that encompassed portions of three town lots. That September, the NPS purchased the unimproved tract for \$66,000.²⁵⁷

Since 1995, the park's mountaineering staff has gradually increased in number. In 1995, as noted above, South District Ranger J.D. Swed led a crew of five mountaineering rangers, a fourperson seasonal helicopter crew, an administrative technician, three fee collectors, a Student Conservation Association employee, and more than 30 volunteers. In 2000, Swed left Denali for a park unit in Indiana. Soon afterward he was replaced by Daryl Miller, who had served as a mountaineering ranger at the park since 1991; and Roger Robinson, who had first worked as a

mountaineering ranger in 1980, became the Lead Mountaineering Ranger. Since the mid-1990s the district's mission has broadened considerably, and in 2006 the Talkeetna-based staff included Miller, Robinson, eight mountaineering rangers (about half of them permanent employees), a four-person helicopter crew, three visitor use assistants, an interpretive ranger, a park planner, a janitor, and almost 40 mountaineering volunteers.²⁵⁸

Notes - Chapter 13

- ¹ Tom Walker, Kantishna: Miners, Mushers, and Mountaineers (Missoula, Pictorial Histories, 2005), 6-14.
- ² These two geographical features were unnamed at the time but were later named for members of this party. ³ Walker, *Kantishna*, 161-78.
- ⁴ 64th Congress, 1st Session, Senate Report No. 440, May 15, 1916; Congressional Record 64 (February 19, 1917), 3630.
- ⁵ See, for example, NPS, "Superintendent's Monthly Report" for Mount McKinley National Park, June 1923, 2-3.
- ⁶ William E. Brown, A History of the Denali-Mount McKinley Region, Alaska (Santa Fe, NPS, 1991), 174-76.
- ⁷ SAR, April 1932, 3; May 1932, 1, 3; Grant H. Pearson with Philip Newill, *My Life of High Adventure*, 125-28, 150-58.
- ⁸ R.A. Mewaldt, "Cosmic Rays," in http://www.srl.caltech.edu/personnel/dick/cos-encyc.html; "What Are Cosmic Rays?," in http://www.ast.leeds.ac.uk/haverah/cosrays.shtml; "Victor F. Hess," in http://nobelprize. org/nobel_prizes/physics/laureates/1936/hess-bio.html; Eric William Grashorn, *A Search for a Cosmic Ray Point Source with the MINOS Far Detector* (unpublished M.S. thesis), University of Minnesota, August 2005; Germaine Beiser and Arthur Beiser, *The Story of Cosmic Rays* (New York, E. P. Dutton, 1962), 21-23.
- ⁹ "The History of Cosmic Ray Studies, 1900-1949," in http://helios.gsfc.nasa.gov/hist_1900.html; Michael Sfraga, *Bradford Washburn, a Life of Exploration* (Corvallis, Oregon State Univ. Press, 2004), 155.
- ¹⁰ Beiser and Beiser, *The Story of Cosmic Rays*, 25-27, 32-33; Brown, *A History*, 191; Seward Gateway, April 18, 1932, 3; Pearson, *My Life of High Adventure*, 128, 158-59.
- ¹¹ Pearson, My Life of High Adventure, 128; SMR, March 1932, 3.
- 12 Brown, A History, 191.
- ¹³ Pearson, *My Life of High Adventure*, 159-64, 226; SMR, April 1932, 3; May 1932, 3. During the summer of 1932, rangers retrieved Koven's body and had it transported to his widow in New Jersey. SMR, July 1932, 3; August 1932, 3.
- ¹⁴ SMR, July 1934, 8; August 1934, 1, 7-8; Brown, A History, 191; Roger Robinson email, January 30, 2007.
- ¹⁵ Sfraga, Bradford Washburn, 35-38, 87-88, 173.
- 16 Ibid., 174.
- ¹⁷ Lary M. Dilsaver, ed., *America's National Park System: the Critical Documents* (Lanham, Md., Rowman and Littlefield, 1994), 50, 63.
- ¹⁸ As noted in Theodore Catton, *Wonderland: An Administrative History of Mount Rainier National Park* (Seattle, NPS, May 1996), pp. 99 and 258, the Mount Rainier National Park superintendent was licensing the park's climbing guides by 1911; six years later, this service was assumed by the park concessioner. In the Grand Tetons, climber Paul Petzoldt began serving as the area's first professional guide in 1924, five years before Congress established the park. Reynold G. Jackson, "Park of the Matterhorns," in John Daughtery, *A Place Called Jackson Hole: a Historic Resource Study of Grand Teton National Park* (Moose, Wyo., Grand Teton Natural History Association, 1999), Chapter 16.
- 19 Federal Register 1 (June 27, 1936), 676.
- ²⁰ Bestor Robinson to Frank Been, November 14, 1939, in File 201.15, Box 74, CCF, RG 79, NARA SB.
- ²¹ Arno B. Cammerer, "Memorandum for the Washington Office and all Field Offices," March 29, 1940, in File 201.15, see above. Indeed, a revised edition of the NPS's rules and regulations, published in the spring of 1941 (see *Federal Register* 6 [March 26, 1941], 1629), was identical to the original (1936) version except that the new edition added the various Teton Range peaks—Grand Teton, Middle Teton, and South Teton—to regulations that had previously been applied only to peaks in Mount McKinley and Mount Rainier national parks. A later action (*Federal Register* 7 [April 18, 1942], 2906) extended those regulations to Devils Tower in Devils Tower National Monument.
- ²² Arno B. Cammerer, "Memorandum for the Washington Office and all Field Offices," March 29, 1940, in File 201.15, see above.
- ²³ Pearson, My Life of High Adventure, 226-29.
- ²⁴ Federal Register 9 (September 7, 1944), 11009.
- ²⁵ SMR, September 1947, 1; November 1948, 2; Jerrol G. Coates to Dave Johnston, November 27, 1962, in Folder 65, Series 2, Denali Mountaineering Records Collection (DMRC), DENA Archives. Charles R. "Butch" Farabee, Jr., in *Death Daring and Disaster; Search and Rescue in the National Parks* (Lanham, Md., Roberts Rinehart, 2001), 145, states that park staff completed and distributed the first "formal guidelines" for climbing Mount McKinley in December 1948.
- ²⁶ O. A. Tomlinson to Director NPS, February 9, 1949; Grant Pearson to RD/R4, April 19, 1949; all in Folder 16, Series 2, DMRC.
- ²⁷ These materials were revised in 1949, in 1952, and perhaps in other years as well. See O. A. Tomlinson to Supt. MOMC, May 4, 1949, in Folder 16, Series 2, DMRC; Ronald F. Lee to Washburn, April 1, 1952; Lawrence

- C. Merriam (RD/R4) to Director NPS, May 2, 1952; Pearson, "Climbing Mount McKinley and Other High Mountains in Mount McKinley National Park, Alaska;" all in File 201.15, noted above.
- ²⁸ The mountain-climbing section in the *Code of Federal Regulations*, Title 36, 1949, Section 1.14 (pp. 150-51) is a reflection of the *Federal Register's* rules and regulations issued in 1936 and 1941. For minor changes to the regulations during the 1950s, none of which had a perceptible impact on Mount McKinley climbers, see the following Federal Register citations: December 11, 1952 (vol. 17, p. 11197); February 5, 1957 (vol. 22, p. 720); and December 8, 1959 (vol. 24, pp. 9850-51).
- ²⁹ Pearson, *My Life of High Adventure*, 227-28. The one instance prior to 1958 in which climbers did not begin at Wonder Lake was with Bradford Washburn on his 1951 West Buttress climb.
- ³⁰ Pearson, *My Life of High Adventure*, 229; Pearson to American Alpine Club, December 29, 1952, in Folder 19, Series 2, DMRC. Pearson had been part of expeditions into the high Alaska Range in the spring of 1932, the fall of 1944, and the spring of 1947.
- ³¹ O. A. Tomlinson to Supt. MOMC, etc., July 13, 1948; Clemons, "Report of Attendance at NPS Mountain Climbing and Rescue Training School, MORA, September 13-17, 1948;" both in Folder 14, Series 2, DMRC; Farabee, *Death Daring and Disaster*, 145.
- 32 Sfraga, Bradford Washburn, 162-63, 168-69, 172-73.
- ³³ Sfraga, *Bradford Washburn*, 156-57; James Ramsey Ullman, *The White Tower* (Philadelphia, Lippincott), 1945. During the late 1940s, the New England Museum of Natural History changed its name to the Boston Museum of Science, a name it retains today. See Sfraga, *Bradford Washburn*, 149, 163; *Anchorage Daily Times*, August 29, 1949, 4.
- 34 Sfraga, Bradford Washburn, 159-62.
- 35 Ibid., 160, 162.
- ³⁶ *Ibid.*, 164-68; Pearson, *My Life of High Adventure*, 204-10; SMR, March 1947, 1; SMR, April 1947, 1-2; SMR, May, 1947, 1.
- ³⁷ Sfraga, *Bradford Washburn*, 168-73; SAR, 1948, 4. The hut and other expedition materials were not removed from the mountain, and remaining evidence is still often seen by climbers and park staff. Roger Robinson, review comment, July 11, 2007.
- ³⁸ Newton Drury to Olaus J. Murie memo (attachment), January 9, 1950, in File 845 ("Research"), CCF, RG 79, NARA SB. Washburn, in this case, was assuming a dependence on ground transport. He noted that "the only other practical route, via the great western buttress of McKinley, requires a ground approach via Peters Glacier (or Peters Pass).... McGonagall Pass can be easily reached afoot from Wonder Lake in bad weather or emergency, while the western approach would present a long, complicated journey except by air."
- ³⁹ Federal Register 12 (March 13, 1947), 1723-24. Landings at Wonder Lake were allowed until September 1959; see Federal Register 24 (June 3, 1959), 4519 and Federal Register 24 (September 16, 1959), 7458-59.
- ⁴⁰ SMR, August 1949, 1; SMR, September 1949, 1; *Anchorage Daily Times*, September 12, 1949, 1; Newton Drury to Olaus J. Murie, January 9, 1950, in File 845 ("Research"), see above.
- ⁴¹ Olaus J. Murie to Newton B. Drury, January 17, 1950, in File 845 (see above).
- ⁴² Howard Stagner to Herbert Maier, n.d. (January 1950?); Pearson to Regional Director, Region Four, January 18, 1950; both in File 845 (above).
- ⁴³ Urner Liddel to Olaus J. Murie, January 31, 1950, in File 845 (above).
- ⁴⁴ Drury to Murie, February 20, 1950; Murie to Washburn, April 29, 1950; both in File 845 (above).
- ⁴⁵ O.A. Tomlinson to Murie, February 16, 1950; Lewis F. Clark to Urner Liddel, June 5, 1950; Washburn to Clark, June 9, 1950; all in File 845 (above).
- ⁴⁶ More than a decade later, Murie noted the episode in the article "Mount McKinley; Wilderness Park of the North Country," *National Parks Magazine* 37 (April 1963), 5.
- 47 SMR, October 1950, 4.
- ⁴⁸ New York Times, May 22, 1951, 2; Anchorage Daily Times, July 14, 1951, 8; Los Angeles Times, July 19, 1951, 22. Author James Greiner, who spoke to Washburn during the 1970s, stated that the new 1951 route was "motivated by [Washburn's] desire to find a short route that offered less crevasse danger for use by the Office of Naval Research in subsequent cosmic-ray experiments and other scientific work on the mountain." Washburn, putting a positive spin on his efforts, suggested that the cosmic ray work "actually never took place because the levels of energy produced by man-made accelerators soon made cosmic-ray research of this sort no longer practical or necessary." Greiner, Wager With the Wind: The Don Sheldon Story (Chicago, Rand McNally, 1974), 78; Washburn, "Mount McKinley Conquered by New Route," National Geographic Magazine 104 (August 1953), 219.
- ⁴⁹ Pearson, My Life of High Adventure, 227-28; New York Times, June 18, 1952, 5.
- ⁵⁰ Anchorage Daily Times, July 15, 1959, 16; January 15, 1964, 9.
- ⁵¹ Sfraga, *Bradford Washburn*, 180-88; SMR, June 1951, 1; July 1951, 1; Pearson, *My Life of High Adventure*, 228; Bradford Washburn and David Roberts, *Mount McKinley: the Conquest of Denali* (New York, Abrams,

- 1991), 72, 111. Washburn and Roberts (p. 111) note that Washburn and others were dropped off at elevation 7,650 feet, not 8,500 feet.
- 52 Herbert Maier to Supt. MOMC, February 7, 1952, in Folder 19, Series 2, DMRC.
- 53 Washburn to Wirth, March 20, 1952, in File 201.15, Box 74, CCF, RG 79, NARA SB.
- ⁵⁴ Grant Pearson to American Alpine Club, December 29, 1952, in Folder 19, Series 2, DMRC.
- 55 Thayer Scudder to Pearson, May 3, 1952, in File 201.15, noted above.
- ⁵⁶ Pearson to Henry S. Francis, Jr., May 7, 1952, in File 201.15, noted above.
- ⁵⁷ SMR, May 1954, 2; May 1955, 4.
- ⁵⁸ Pearson to RD/R4, December 13, 1955, in Folder 29; Ronald F. Lee to RD/R4, March 21, 1956, in Folder 35; Jerrol Coates to Dave Johnston, October 23, 1962, in Folder 67; all in Series 2, DMRC. Washburn, noting climbers' changing time requirements, had advocated the allowance of airdrops four years earlier. Ever the development advocate, Washburn also urged the construction of a "small but rugged ... shelter in McGonagall Pass," an idea that was not shared by NPS officials. Washburn to Director NPS, February 18, 1952, in Folder 19; Washburn to Pearson, March 11, 1955, in Folder 29; Washburn to Wirth, May 29, 1956, in Folder 35; all in Series 2, DMRC.
- ⁵⁹ Pearson, *My Life of High Adventure*, 230-31; SMR, May 1957, 5; June 1957, 5-6; July 1957, 3-4. ⁶⁰ Greiner, *Wager With the Wind*, 162; Pearson, *My Life of High Adventure*, 231-34; SMR, various issues, July 1958 to June 1960. In late 1960, park superintendent Samuel King told a potential climber that "the Muldrow Glacier has settled a great deal, but it is not known if it will be sufficiently settled for climbing in 1961." A five-man party was, in fact, able to ascend the Muldrow in July 1961 on its way up North Peak. King to Robert Gardner, September 7, 1960, in Folder 48, Series 2, DMRC.
- ⁶¹ American Alpine Journal, Vol. 8, issue 27 (1953), p. 480. To further clarify the boundary location, Bradford Washburn in 1961 sent Sheldon a copy of his recently-issued Mount McKinley map which showed "the southern boundary of McKinley Park marked on it as accurately as the USGS can do it." He did so "because of the constant problem of expeditions that want to be delivered 'as near the Park boundary as possible!'" Washburn to Sheldon, September 18, 1961, in Folder 59, Series 2, DMRC.
- ⁶² Various correspondence in Folders 44, 49, 55, 60, 80, 82, 86, and 91; all in Series 2, DMRC, courtesy of Roger Robinson, DENA. Mike Fisher and Frances Twigg, both of whom flew for Don Sheldon during the early-to mid-1960s, knew that the southeast fork's landing site was inside the park; Twigg, in fact, stated that "Don moved the airstrip 700 feet inside the park so that climbers would have less distance for their climb." Mike Fisher interview, June 28, 2007, and Frances Twigg interview, July 20, 2007; both interviews conducted by Roger Robinson.
- ⁶³ Jerrol Coates to Dave Johnston, October 23, 1962, in Folder 67; Coates to Tom Goldenberg, October 23, 1962, in Folder 69; both in Series 2, DMRC, courtesy of Roger Robinson, DENA. Airdrops for Kahiltna-based climbers apparently continued until the early 1970s, as noted in the University of Oregon discussion.
- ⁶⁴ Greiner, Wager With the Wind, 160-61.
- ⁶⁵ Charley Shimanski, "Rescue Cost Recovery, DENA," c. 2001, p. 3; see www.americanalpineclub.org/pdfs/ MRcost.pdf.
- ⁶⁶ Lyman L. Woodman, *Duty Station Northwest; the U.S. Army in Alaska and Western Canada, 1867-1987: Volume Three, 1945-1987* (Anchorage, Alaska Historical Society, 1999), 36; Greiner, *Wager With the Wind,* 76; Douglas Beckstead, letter to the author, July 30, 2007; Farabee, *Death Daring and Disaster,* 144. During the mid-to-late 1940s, the U.S. Navy continued to coordinate search and rescue activities for the offshore waters and islands, but in August 1950 the U.S. Air Force assumed control over all territorial search and rescue activities.
- ⁶⁷ NPS, "Climbing Mount McKinley and Other High Mountains in Mount McKinley National Park, Alaska," ca. 1952, in "Mountain Climbing Policy" (file 201.15), CCF, RG 79, NARA SB; Pearson to William D. Hackett, June 9, 1952, in Folder 19, Series 2, DMRC.
- ⁶⁸ Pearson, *My Life of High Adventure*, 230; SMR, May 1954, 2; Roger Robinson, review comment, July 11, 2007; Robinson email, August 22, 2007; Richard and Florence Collins interview, by Jane Bryant, March 2002, in DENA Archives.
- ⁶⁹ New York Times, May 27, 1954, 16; May 31, 1954, 14; Ptarmigan Tracks (Camp Denali newsletter), November 2004, 1; SMR, April 1954, 4; May 1954, 4; June 1954, 5; Pearson, My Life of High Adventure, 229-30; Morton S. Wood, 'The First Traverse of Mt. McKinley," American Alpine Journal, 1955, pp. 51-69; Jane Bryant emails, March 29-30, 2007; Robert Gerhard, "Denali Dilemma," American Alpine Journal 21:1 (1977), 96; Jane Bryant review comments, September 17, 2007.
- ⁷⁰ "National SAR School History" (www.acc.af.mil/afrcc/nationalsarschool/index.asp); James H. Isbell to Samuel A. King, March 13, 1961, in Folder 59, Series 2, DMRC.
- 71 SMR, May 1958, 3.
- 72 Fairbanks Daily News-Miner, March 14, 1959, 1.

- ⁷³ Pearson, *My Life of High Adventure*, 232-33; Greiner, *Wager with the Wind*, 159-75; SMR, May 1960, 5; Charles Champlin, "Intrepid Men vs. Mighty Mac," *Life Magazine* 48 (June 6, 1960), 24-31. Those killed in the small-plane crash were Anchorage contractor William Stevenson and Technical Sergeant Robert Elliott from Elmendorf AFB.
- ⁷⁴ SMR, June 1960, 6; Anchorage Daily Times, June 24, 1960, 13; June 27, 1960, 13.
- ⁷⁵ Paul B. Crews to Samuel A. King, September 9, 1960; King to Crews, September 13, 1960; Richard J. Stenmark to Supt. MOMC, December 12, 1960; Neil J. Reid to RD/R4, December 14, 1960; all in Folder 48, Series 2, DMRC.
- ⁷⁶ NPS, "Recommended Procedures Involving the NPS, the ARG, the USAFRCC, and Volunteering Private Individuals in Rescue Situations on National Park Lands" (draft), January 11, 1961; James H. Isbell to Samuel A. King, March 13, 1960; both in Folder 59, Series 2, DMRC.
- ⁷⁷ Elroy W. Bohlin to RD/R4, May 1, 1961; Lawrence Merriam to Supt. MOMC, May 11, 1961, both in Folder 59, Series 2, DMRC; SMR, April 1961, 3. Joe Wilcox, in his book *White Winds* (Los Alamitos, Calif., Hwong Publishing, 1981, pp. 36-37), notes that as he prepared for his 1967 expedition, the NPS demanded that climbers "secure the agreement of a qualified rescue group to come to their aid should an emergency occur. The most prominent such group was the ARG.... Previous expeditions had indicated that Park Service permission was routine once ARG approval was given."
- ⁷⁸ John H. Johnston to Robert Bates, December 30, 1960, in Folder 48; Robert Bates to Conrad Wirth, January 6, 1961, in Folder 59; both in Series 2, DMRC; SMR, January 1961, 3, 5.
- ⁷⁹ E.T. Scoyen to RD/R4, March 21, 1961; Merriam to Supt. MOMC, March 29, 1961; Washburn to Scoyen, April 13, 1961; all in Folder 59, Series 2, DMRC.
- ⁸⁰ NPS, "Climbing History of Mount McKinley, Successful Ascents," c. 1970, in "H14, Historical Notes, 1964-70" folder, Box 7, ARCC-00183, AKRO Archives.
- ⁸¹ Ibid.; Pearson, My Life of High Adventure, 224-34; Greiner, Wager With the Wind, 207-08; Roberta Sheldon, The Heritage of Talkeetna (Talkeetna, Talkeetna Editions, 1995), 161. Before 1960, the only non-Americans who had attempted the climb were two Mexican parties in 1952 (one of which was successful), along with a British party that had made an unsuccessful 1956 attempt.
- ⁸² Michael Sfraga (*Bradford Washburn*, 180-81) notes that Moore lived in Fairbanks (and thus began his flight there) but picked up two expedition members at Chelatna Lake (southwest of Mount McKinley) before landing the party on Kahiltna Glacier.
- 83 Sheldon, Heritage of Talkeetna, 157; Milepost, 1963 edition, 183.
- ⁸⁴ Rupert Pratt, *Touching the Ancient One: A True Story of Tragedy and Reunion* (Tucson, Wheatmark, April 2006), 45; Marilyn Hudson email, May 10, 2007; *Anchorage Daily News*, August 20, 1951, 1; *Anchorage Daily Times*, August 20, 1951, 1.
- 85 Sheldon, Heritage of Talkeetna, 128-29; Greiner, Wager With the Wind, 59, 98, 135, 143.
- ⁸⁶ Sheldon, *Heritage of Talkeetna*, 142, 148-49; Bruce McAllister, *Wings Over Denali; a Photographic History of Aviation in Denali National Park* (Boulder, Roundup Press, 2004), 106, 112-13. The 1964 *Milepost*, published shortly after Talkeetna was reached by road, featured (p. 183) a large advertisement for Talkeetna Air Service and Rainbow Lodge, plus a smaller ad for Cliff Hudson Fishing and Boating Service.
- ⁸⁷ Anchorage Daily News, April 27, 1992, E-8. Roger Robinson (telephone call, April 6, 2007) notes that after Sheldon died in January 1975, his widow Roberta continued to run the business and employed Fred Richards, and later Buddy Woods, as pilots. In 1976, Jim Sharp purchased the firm and changed its name to Talkeetna Air Taxi; Sharp later sold it to Leonard (Sonny) Kragness. Subsequent owners were Lowell Thomas, Jr., Doug Geeting, and David Lee. Holland ran his business until 1979, when he sold it to Kitty Banner and Kimball Forrest, who founded K2 Aviation; they stayed in business until 1981, when the firm was sold to Jim Okonek, who owned it until the mid-1990s. Hudson Air Service is still owned by the Hudson family and is managed by Jay, Cliff's son. In 1985 a new competitor appeared when Doug Geeting, formerly of Hudson and Talkeetna Air Taxi, began Doug Geeting Aviation. The four companies—Talkeetna Air Taxi, K2 Aviation, Hudson Air Service, and Doug Geeting Aviation—competed from the mid-1980s into the 1990s. *Anchorage Daily News*, June 18, 1989, N-7; June 25, 1989, F-1; NPS/AKRO, *Commercial Visitor Service Directory*, 1984 and 1985 issues.
- ⁸⁸ Wayne Merry interview, May 7, 2007; Jay Hudson interview, May 8, 2007; Art Davidson, *Minus 148°: First Winter Ascent of Mt. McKinley* (Seattle, the Mountaineers, 1999), 30.
- ⁸⁹ SMR, April 1960, 4; April 1964, 2; Wayne Merry interview, May 7, 2007; Art Davidson interview, April 24, 2007.
- ⁹⁰ SMR, June 1963, 3; April 1964, 2; Greiner, *Wager With the Wind*, 210; *Anchorage Daily Times*, June 4, 1978, D-1; Jim Okonek, interview by Bill Brown, February 26 and 27, 1992, on "Project Jukebox" website (http://uaf-db.uaf.edu/jukebox/denalil/html/jiok.him); Supt. MOMC to RD/R4, January 11, 1961 in Folder 59, Series 2, DMRC.

- ⁹¹ SMR, November 1962, 2; April 1963, 2; Catton, *Wonderland: An Administrative History of Mount Rainier National Park*, 472; McGowan obituary, April 27, 2007, on www.sfgate.com. As noted in NPS correspondence (William E. Davis to Jerrol Coates, November 23, 1962, in Folder 65, Series 2, DMRC), Hans Metz—who had summited McKinley via the West Buttress a month earlier than McGowan—also expressed an interest in becoming a climbing guide but did not obtain a special use permit.
- 92 Various correspondence in Folder 75, Series 2, DMRC.
- ⁹³ Greiner, Wager With the Wind, 122-23, 247; Anchorage Daily Times, May 12, 1966, 1-2; May 13, 1966, 1.
 ⁹⁴ BLM, "Serial Register Page" for AA-445; Patent No. 50-73-0203; both in Parcel DENA 10-102 file, AKRO Lands Office. Ms. Sheldon owned the parcel until early 2006, when she granted it to a company called Mountain House LLC. Each year the cabin, which comfortably sleeps four, is open from March to mid-July. Jennifer Forker, "Marooned at the Mountain House," Alaska 65 (February 1999), 38-41.
- ⁹⁵ NPS, "Climbing History of Mount McKinley," see above, states that nine climbing parties successfully climbed Mount McKinley from the north (via Karstens Ridge, Pioneer Ridge, or Wickersham Wall) between 1961 and 1966, inclusively.
- 96 SMR, December 1966, 2; January 1967, 2-3.
- 97 Davidson, Minus 148°, 138, 204-06, 213.
- 98 Wilcox, White Winds, 2-3.
- 99 SMR, January 1961, 3, 5; November 1962, 2; December 1963, 2.
- ¹⁰⁰ NPS, *Mountaineering in Mount McKinley National Park*, March 1967, in "Mountaineering Documents, 1966-67, George Hall Collection" folder, DENA AH Collection.
- ¹⁰¹ Wilcox, White Winds, 68, 176-79, 183-84, 191, 213-15, 475-77.
- Mountaineering, 1968, pp. 20-30), assigned some blame to NPS rangers, who (in their view) should have radioed a message to the ill-fated "upper party" and ordered them to retreat. Years later, both Wilcox and Snyder wrote books about the expedition and tried to discern what went wrong. Snyder, who wrote *The Hall of the Mountain King* in 1973 (New York, Scribner's, pp. 177-82), stated that the expedition "had tragically bad luck," but he also suggested "circumstances and actions which contributed to the disaster," including inexperience among the Wilcox team, complacence based on the large group size, and poor food and mountaineering skills. Wilcox, who wrote *White Winds* eight years later, felt that rescuers relied too heavily on fixed-wing pilot Don Sheldon instead of helicopter support, and he cited other contributing factors. But he also stated (p. 476) that "it is doubtful that anything could have been done to aid the upper party" because of the extreme wind severity. Jonathan Waterman tried to offer a more objective, nuanced analysis in his *In the Shadow of Denali: Life and Death on Alaska's Mount McKinley* (New York, Lyons Press, 1998), while James M. Tabor wrote a more pointed book about the tragedy in *Forever on the Mountain* (New York, Norton, 2007).
- ¹⁰⁴ Anchorage Daily News, March 2, 1994, E-5.
- ¹⁰⁵ Park climbing guides, since the early 1950s if not before, had applied to all high peaks in the park; and previous *Federal Register* regulations had similarly been applicable to all high peaks in the park. Thus the 1970 regulation, which applied to only Mt. McKinley and Mt. Foraker, was relatively limited in its scope.
- ¹⁰⁶ Federal Register 35 (March 14, 1970), 4554; Federal Register 35 (August 15, 1970), 13017.
- ¹⁰⁷ Anchorage Daily News, July 10, 1974, 4,
- ¹⁰⁸ Institute of Arctic Biology, UAF, "Climbing Problems on Mt. McKinley" (draft), November 1, 1967, in "Mountaineering Documents" file, above.
- 109 Washburn to Harthon L. Bill, November 17, 1967, in "Mountaineering Documents" file, above.
- ¹¹⁰ Anchorage Daily News, July 21, 1968, 17; Art Davidson interview, April 24, 2007; Arthur L. Davidson, "High Altitude Research on Mount McKinley," *American Alpine Journal* (1969), 371; various 1968 correspondence in Folder 118, Series 2, DMRC. Roger Robinson (review comments, July 11, 2007) notes that park rangers, in the 1990s, "began to uncover large caches of supplies that [Institute personnel] had buried at the 17,200 foot camp." New evidence of the 1968 camp was being uncovered as late as 2006.
- 111 Dan Kuehn to Greg Wolf, December 13, 1974, in "K3417 Press Releases by MOMC, 1974-75" file, Box 2, Collection 00495, DENA Archives; NPS, "Mount McKinley South Peak, Attempts and Summits," on DENA mountaineering website (http://www.nps.gov/dena/planyourvisit/mountaineering.htm); Roger Robinson telephone call, April 6, 2007.
- ¹¹² Roger Robinson, review comment, July 11, 2007. Beginning in the late 1980s, camp operations were jointly sponsored by a variety of local air services.
- ¹¹³ Peter Robinson, "Frances Randall," *American Alpine Journal*, 1985, 369; NPS, "Mountaineering Summary Report 1984," on DENA mountaineering website (http://www.nps.gov/dena/planyourvisit/summaryreports. htm). Roger Robinson wrote the *AAJ* obituary, which the editor inadvertently applied to a fellow Alaska climber with the same surname.

- ¹¹⁴ Anchorage Daily News, June 23, 1981, D-1, D-4; Anchorage Daily Times, September 6, 1983, B-5; Anchorage Daily News, April 27, 2000, B-1.
- 115 NPS, "Climbing History of Mount McKinley," see above; New York Times, August 24, 1969, X:23; Eberhard Hantsch, "Eight Days to the Top," Alaska 36 (October 1970), 45-47. Further information about Genet is found in Judy Shuler, "A Man and His Mountain," Alaskafest, June 1977, 27-31; Richard Loren Doege, "Ray Genet" (obituary), American Alpine Journal 22:2 (1980), 693-94; various Anchorage Daily Times and Anchorage Daily News articles for October 8-9, 1979; and Waterman, In the Shadow of Denali, 96-104. Genet apparently did not participate in a 1964 summiting of Mt. Huntington, eight miles south of Mt. McKinley, as noted in Davidson's Minus 148° (p. 24).
- ¹¹⁶ Genet's company was apparently Alaska Mountain Guides in 1971 and 1975 but Genet Expeditions in 1973; see Genet to Ernest Borgman, April 30, 1971, in File NR 1-2 (1971), Series 88, RG 01, ASA; Daniel Kuehn to Genet, July 6, 1973, in "Correspondence, AMG/Genet Expeditions, 1977" file, Box 1, Collection 00495, DENA Archives; Gary Brown to Allen Steck, October 24, 1975, in "Correspondence, Mountain Travel, 1977" file, Box 1, Collection 00495, DENA Archives; NPS, "Record of Active Revocable Permits," 1971, in "Special Use Permits" file, Box 99, Series 1, DARC, DENA Archives.
- ¹¹⁷ Genet, as shown by various letters and memos during this period (see files directly above and below), exhibited a distinctly independent streak; he often creatively interpreted NPS regulations, and customers complained because he overextended himself or exhibited poor customer service. In 1973, NPS officials allowed his special use permit to lapse, but soon afterward they renewed it.
- ¹¹⁸ See Robert A. Gerhard to Joe Horiskey, October 18, 1977, in "Correspondence, Rainier Mountaineering, 1977" file, Box 1, Collection 00495, DENA Archives; Allen Steck to Gary Brown, October 16, 1975, in "Correspondence, Mountain Travel, 1977" file, noted above; Genet to Borgman, April 30, 1971, noted above; SAR, 1974, 5.
- ¹¹⁹ Lignite is an Alaska Railroad stop located just north of Healy; the Mercer Ranch is located at the end of Lignite Road, which extends east from the Parks Highway.
- 120 Wilcox, White Winds, 59, 69.
- ¹²¹ SMR, August 1957, 5; September 1957, 5.
- ¹²² SMR, April 1961, 3; February 1964, 2; August 1964, 5; Roger Robinson, review comment, July 11, 2007.
- ¹²³ NPS, "Climbing History of Mount McKinley," see above; NPS, "Annual Mountaineering and Search and Rescue Report" for MOMC, January 7, 1971, in "Annual Reports, 1953-72" file, Box 5, ARCC-00183, AKSO; Jane Bryant email, January 4, 2007; Roger Robinson, review comment, July 11, 2007.
- 124 Anchorage Daily Times, June 26, 1973, 23.
- 125 Jeb Schenck, "Mt. McKinley-Littered Overcrowded Route," Summit 16 (December 1970), 24-25.
- 126 Bill Sherwonit, "Mountain of Trash: Decades of Climbers Have Fouled Denali," Alaska 68 (May-June 2002), 35.
- ¹²⁷ *Tacoma News-Tribune*, May 26, 1971, C-2; Doris M. Ewing, "A Mt. McKinley Attack on Trash," *Smithsonian* 3 (May 1972), 54-57; *Anchorage Daily Times*, November 20, 1972, 49; July 11, 1973, 35.
- 128 Anchorage Daily News, August 31, 1974, 2; "News & Notes," Off Belay #21 (June 1975), 39.
- 129 Gary Brown, "And a Reply," American Alpine News #136 (March 1976), 15.
- ¹³⁰ New York Times, November 16, 1975, X:5, and Gail Miller Menschel, "Crowd at the Top," Alaska 42 (November 1976), 98. Bill Sherwonit, in "Mountain of Trash," 34-35, notes that Grimm continued to bring cleanup crews to the mountain until 1977.
- ¹³¹ Roger Robinson, "Crisis on Denali," pp. 15, 17; Gary Brown, "And a Reply," pp. 15, 19; both in *American Alpine News* #136, March 1976.
- ¹³² Gerhard replaced Bruce Wadlington, who managed climbers' activities but showed little interest in spending extended periods on the mountain.
- ¹³³ Robert Gerhard, interview by Frank Norris, April 28, 2005; "NPS Bicentennial Denali Expedition" folder (#300) in Series 2, DMRC, DENA Archives. Gerhard's team included park carpenter Tommy Adams, interpretive specialist Bill Garry, mountaineering ranger Nick Hartzell, backcountry ranger Jack Hebert, and seasonal ranger Johnny Johnson. The climb was one of two park bicentennial projects; the other was the living history demonstration at the Upper Toklat (Pearson) cabin, described in Chapter 12.
- ¹³⁴ Gerhard, "Denali Dilemma," 100. Gerhard's remarks were largely duplicated in his article "McKinley: What Does the Future Hold?" *Summit* 23 (February-March 1977), 14-19. Details of the rescue are noted in Ralph Baldwin, "The Crisis on Denali," *Off Belay* #30 (December 1976), 8.
- ¹³⁵ Doherty, "McKinley Sees Tragic Season," 8; Gerhard, "Denali Dilemma," 96.
- 136 Baldwin, "The Crisis on Denali," 3.
- ¹³⁷ Articles mentioning Horton's trip, and his policies toward McKinley climbing, include *Anchorage Daily Times*, August 3, 1976, 4; August 12, 1976, 16; and August 14, 1976, 4.
- ¹³⁸ Baldwin, "Crisis on Denali," 3; Doherty, "McKinley Sees Tragic Season," 8; Robert Gerhard, "McKinley: What Does the Future Hold?" *Summit* 23 (February-March 1977), 15; Gerhard, "Denali Dilemma," 97; SAR, 1977, 4.

- ¹³⁹ Gerhard, "Denali Dilemma," 97; Shuler, "A Man and His Mountain," 28. Baldwin, "Crisis on Denali," pp. 8-9 explains each policy option and its feasibility and short-term applicability. He concluded his remarks by recommending that the NPS launch an educational campaign instead of various Draconian alternatives, and that Mount McKinley climbers adopt a "fundamental responsibility ... to prepare himself for the task at hand." ¹⁴⁰ Gerhard, "Denali Dilemma," 99-100; Baldwin, "Crisis on Denali," 9. The study is noted in the *Anchorage Daily News*, August 5, 1976, 8, and the *Seattle Times*, September 26, 1976, A-25.
- ¹⁴¹ Anchorage Daily Times, August 12, 1976, 16; November 1, 1976, 23; November 2, 1976, 4.
- ¹⁴² Climbing ranger Roger Robinson, in a January 2007 interview, noted that during the 1977 and 1978 climbing seasons, the two seasonal rangers stayed in a small room at the Talkeetna Fire Hall. They typically met climbers at either the railroad depot or the village airstrip.
- ¹⁴³ SAR, 1977, 3-4; Robert Gerhard, "Climbing in Mount McKinley National Park," *American Alpine Journal* 21:2 (1978), 503-04; Tom Walker, "High Landing," *Alaska* 43 (September 1977), 81.
- 144 Sherwonit, "Mountain of Trash," 35, 68; NPS, "2000 Mountaineering Summary, DENA," 2.
- ¹⁴⁵ Gerhard, "Climbing in Mount McKinley National Park," 504; Gerhard, "Mountaineering in Mount McKinley National Park," *American Alpine Journal* 22:1 (1979), 163.
- ¹⁴⁶ SAR, 1978, 1-2; Gerhard, "Mountaineering in Mount McKinley National Park," 161-63; Joe Van Horn interview, April 20, 2007.
- ¹⁴⁷ Daniel J. Tobin, Jr. to Ted Stevens, February 16, 1978, in "Climbing Policy" file, DENA AH Collection, AKRO; *Anchorage Daily Times*, July 3, 1978, 4.
- ¹⁴⁸ Bob Gerhard to Joe Alston and Ralph Tingey, December 1, 1981, in "NOLS 80-86" folder, in "Mountain Guides 82-84" box, DENA Concessions office; Carlene Dickey, "Finding Aid, Denali Mountaineering Records, 1906-1994" (Denver, NPS, 2002), 54-79, in DENA Archives.
- ¹⁴⁹ Robert Gerhard interview, September 23, 2003; Richard Meehan to Supt. MOMC, June 4, 1979, in "Correspondence, Alaska Mountain Guides, Genet Expeditions, 1977" file, Box 1, Collection 00495, DENA Archives; Gerhard to Joe Horiskey, October 18, 1977, in "Correspondence, Rainier Mountaineering, 1977" file, Box 1, Collection 00495, DENA Archives.
- ¹⁵⁰ SAR, 1978, 1-2; Gerhard to W. Gerald Lynch, April 20, 1979, in "Correspondence, Rainier Mountaineering, 1977" file, see above.
- ¹⁵¹ NPS, "Mountaineering Summary Report 1981" on Denali mountaineering website; Evaluation Panel to Supt. MOMC, November 18, 1980, in "Evaluation and Recommendation, Concession Permits, Mountaineering Guide Services" folder, "1980 and 1993 Mountaineering Prospectus" box, DENA Concessions office. In 1980, Genet Expeditions was under new management, inasmuch as Ray Genet had died on October 2, 1979, shortly after summiting Mt. Everest.
- ¹⁵² Anchorage Daily Times, January 5, 1981, B-1; January 2, 1981, A-7.
- ¹⁵³ Robert Gerhard interview, September 23, 2003; Baldwin, "The Crisis on Denali," 6; Bob Gerhard draft memo, February 4, 1981, in "Evaluation and Recommendation" folder (see above). Also, William Truesdell to Jim Ratz, June 9, 1981; Robert Cunningham to Ratz, December 30, 1981; and NPS, "Concession Permit No. CX9830-2-0001," all in "NOLS 80-86" folder, "Mountain Guides 82-84" box, DENA Concessions office.
- ¹⁵⁴ NPS, "Mountaineering Summary Report," 1981 and 1983 editions.
- ¹⁵⁵ NPS, "Mountaineering Summary Report," 1984 through 1986 editions.
- ¹⁵⁶ Anchorage Daily Times, January 5, 1981, B-1; NPS, "Mount McKinley South Peak, Attempts and Summits," DENA Mountaineering website; NPS/AKSO, Commercial Visitor Service Directory, various issues, 1981-2006.
- ¹⁵⁷ NPS/AKSO, Commercial Visitor Service Directory, various issues, 1981-1983.
- ¹⁵⁸ *Ibid.*, various issues, 1981-1989. See the *Anchorage Daily News*, June 25, 1989, F-1 for the trend from air tours to flightseeing. Beginning in 1988, NPS concessions personnel required flying services to obtain separate CULs for air tour and flightseeing operations.
- ¹⁵⁹ Jane Bryant email, May 5, 2006; NPS, *Commercial Park Users* (DENA directory), June 1982, in AKRO-EC files; NPS, "Record of Active Revocable Permits" (chart), 1971, in "Special Use Permits" file, Folder 99, Series 1, DARC, DENA Archives; Laura Larsen with Sandy Kogl, "Dog Teams on Mount McKinley," *Alaska* 41 (March 1975), 33.
- ¹⁶⁰ Jane Bryant email, May 5, 2006; Will and Linda Forsberg to Jane Bryant, September 24, 2007; NPS/AKSO, *Commercial Visitor Service Directory*, various issues, 1982-present.
- ¹⁶¹ NPS, "Mount McKinley South Peak, Attempts and Summits," on NPS/DENA Mountaineering website (see above).
- 162 [Daryl Miller], "Climbing Deaths on Denali," on NPS/DENA Mountaineering website (see above).
- ¹⁶³ Anchorage Daily Times, October 17, 1979, 13; July 1, 1980, A-6; July 3, 1980, A-9; July 28, 1981, A-6; June 9, 1982, A-10; September 23, 1982, A-10; Anchorage Daily News, May 16, 1981, A-1; July 17, 1988, J-1, J-3. ¹⁶⁴ Federal Register 35 (August 15, 1970), 13017.
- ¹⁶⁵ Doug Buchanan to Cecil Andrus, October 12, 1979; *Anchorage Daily Times*, September 6, 1983, B-5; *Federal Register* 45 (May 22, 1980), 34759.

- ¹⁶⁶ Anchorage Daily News, June 20, 1980, A-8; Anchorage Daily Times, June 22, 1980, E-1; July 1, 1980, A-6. ¹⁶⁷ Federal Register 45 (November 25, 1980), 78119-20; Anchorage Daily Times, June 23, 1980, A-7; Anchorage Daily News, July 10, 1980, A-9; Robert A. Gerhard, "Revised Regulations for Mountaineering Within Mount McKinley National Park," Summit 26 (November-December 1980), 1. As late as 1993 (Anchorage Daily News, August 3, 1993, E-3), an article noted that "at present climbers can register the day they arrive in Talkeetna."
- ¹⁶⁸ Anchorage Daily Times, June 25, 1978, E-12; Anchorage Daily News, July 30, 1979, A-3; May 16, 1981, A-1, A-10; May 30, 1982, A-1, A-12; Woodman, Duty Station Northwest, Volume Three, 172-73, 201, 214, 224, 266.
- ¹⁶⁹ NPS, "Mountaineering Summary Report 1981," on Denali mountaineering web site (see above). Nine years earlier, a group called Life Bound, Ltd. had proposed the placing of rescue equipment (including emergency oxygen) on an "icy ledge" at the 17,500-foot level of Mt. McKinley. So far as is known, however, the equipment was never delivered. *Anchorage Daily Times*, May 5, 1972, 5; *Anchorage Daily News*, May 7, 1972, 18.
- ¹⁷⁰ NPS, "Mountaineering Summary Report 1982," on Denali mountaineering web site (see above); *Anchorage Daily Times*, September 23, 1982, A-10 and B-5; October 5, 1982, A-11.
- ¹⁷¹ NPS, "Mountaineering Summary Report," 1983 and 1984 editions, on Denali mountaineering web site (see above); SAR, 1983, 2; Jon Waterman, "Mt. McKinley: Alaska's Highest Ranger Station," *Courier* 30 (January 1985), 1-2.
- ¹⁷² NPS, "Mountaineering Summary Report 1983;" *Anchorage Daily Times*, May 23, 1983, B-4; *Anchorage Daily News*, May 22, 1983, A-1, A-12; May 26, 1983, A-12.
- ¹⁷³ NPS, "Mountaineering Summary Report," 1984, 1985, and 2000 editions; *Anchorage Daily News*, July 19, 1984, C-1; *Anchorage Daily Times*, July 18, 1984, B-1; July 20, 1984, A-10; July 21, 1984, A-10.
- ¹⁷⁴ Alaska Railroad, "Memorandum of Rental Agreement" (Contract 69-25-0003-5165), April 14, 1980, in "Front Misc." file, Box 1, Collection 00495, DENA Archives.
- ¹⁷⁵ Biographical sketches of Gerhard and Seibert are noted in the *Anchorage Daily News* issues of May 13, 1984, O-4 and July 14, 1991, O-10, respectively.
- ¹⁷⁶ SAR, 1984, 2; Roger Robinson interview, January 2007;
- ¹⁷⁷ NPS, "Mount McKinley South Peak, Attempts and Summits" (chart), DENA Mountaineering website. The 1989 crowds, more than half of whom reached the summit, prompted climbing ranger Bob Seibert to quip "Believe it or not, we do have people standing in line waiting for their turn on Mount McKinley." Yereth Rosen, ed., "From Ketchikan to Barrow," *Alaska* 56 (February 1990), 11.
- ¹⁷⁸ [Daryl Miller], "Climbing Deaths on Denali," on Denali mountaineering web site. During the 1985-1995 period, at least two climbers died on Mount McKinley in every year except 1991 (which had no deaths) and 1993 (which had one).
- ¹⁷⁹ Anchorage Daily News, July 17, 1988, J-1; August 9, 1991, M-1; August 11, 1992, B-3.
- ¹⁸⁰ NPS, "Mountaineering Summary Report," 1985 through 1995 editions; SAR, 1987, 6.
- ¹⁸¹ SAR, 1986, 2; SAR, 1987, 6; "The Mountain That Eats Koreans," *Economist* 323 (June 20, 1992), 28; *Anchorage Daily News*, August 3, 1993, E-3. The two foreign language brochures had been produced in 1983; see NPS, "Mountaineering Summary Report," 1983, 1987, 1988, 1992, and 1995 editions.
- ¹⁸² Anchorage Daily News, June 23, 1990, B-3; Rosen, "From Ketchikan to Barrow," 11; NPS, "Mountaineering Summary Report 1990."
- ¹⁸³ Seibert, "Denali National Park and Preserve Mountaineering Summary, 1990," *American Alpine Journal* 33 (1991), 154; Alan Ewert, "High Altitude Mountaineering Setting: Visitor Characteristics and Management Preferences," unpub. mss., August 1992, in Talkeetna Mountaineering Center (NPS) files.
- Anchorage Daily News, May 27, 1992, B-6 and June 7, 1992, E-1; New York Times, May 19, 1992, A-17;
 May 24, 1992, 32; and June 2, 1992, A-14; Michael Meyer, "Deathwatch on Mount McKinley," Newsweek
 (June 8, 1992), 31; "The Mountain That Eats Koreans," 28.
- 185 "Deathwatch on Mount McKinley," 31; Anchorage Daily News, June 7, 1992, E-1, E-4.
- ¹⁸⁶ Anchorage Daily News, August 11, 1992, B-1, B-3; October 7, 1993, E-1; NPS, "Mountaineering Summary Report," 1992 edition.
- ¹⁸⁷ SAR, 1991, 7; NPS, "Mountaineering Summary Report," 1995 edition, on DENA website. The Army had first used a Chinook on the mountain in April 1976, when it rescued Hanspeter Trachsel from the 17,200-foot level. Even earlier, in April 1972, the Army had helicopters capable of summit-level rescue operations, but did not employ them until later. Greiner, *Wager With the Wind*, 242; [Roger Robinson], "Chronology of Firsts in Aviation History on Mt. McKinley" (chart), in Talkeetna Mountaineering Center files.
- 188 Anchorage Daily News, August 3, 1993, E-1, E-3.
- ¹⁸⁹ New York Times, July 11, 1993, V:3; "Pre-Paid Deliverance," *Economist* 328 (September 11, 1993), 23; Anchorage Daily News, October 7, 1993, E-1.

- ¹⁹⁰ Anchorage Daily News, September 12, 1993, D-1; February 28, 1994, D-2; New York Times, September 14, 1993, A-18; "Climbing Costs," Alaska 61 (April 1995), 13.
- ¹⁹¹ Anchorage Daily News, October 7, 1993, E-1; March 2, 1994, E-1, E-5; April 6, 1994, C-1, C-6; NPS, "Mountaineering Summary Report 1995," on DENA website.
- ¹⁹² Anchorage Daily News, December 9, 1994, E-1, E-3; Federal Register 59 (December 15, 1994), 64696-97; "Climb Up, Pay Up," Alaska Business Monthly 11 (January 1995), 10; "Climbing Costs," Alaska 61 (April 1995), 13.
- 193 Federal Register 59 (December 15, 1994), 64697.
- ¹⁹⁴ SAR, 1995, 1, 9; SAR, 1997, 10-11. In 1995, climbers on Mount Rainier also began paying a fee; it was just \$15, or \$25 for a season pass. See *Anchorage Daily News*, December 9, 1994, E-3; Hal Clifford, "After the Fall," *National Parks* 71 (March/April 1997), 34-37.
- ¹⁹⁵ The NPS had been trying to get climbing groups to preregister since 1992. The agency stated that year that beginning in 1994, all groups would need to preregister by February 15. That action, however, did not appear in the *Federal Register* until December 1994 (see above). NPS, "Mountaineering Summary Report," 1992 and 1993 editions, on DENA website.
- ¹⁹⁶ Federal Register 60 (March 31, 1995), 16579-80; September 13, 1995, 47513-14; February 23, 1996, 6943-44; NPS, "Mountaineering Summary Report 1995."
- ¹⁹⁷ NPS, "Mountaineering Summary Report 1996."
- ¹⁹⁸ NPS/AKSO, *Commercial Visitor Service Directory*, various issues, 1985 to 1995; *Anchorage Daily News*, April 27, 1992, E-8.
- ¹⁹⁹ See "1984/85 Fact Sheet, Mountaineering Guides" and "88/89 Fact Sheet" folders, in DENA Concessions office; *Federal Register* 54 (February 3, 1989), 5555. On January 30, 1985, NPS Regional Director Roger Contor wrote U.S. Senator Ted Stevens and noted that the agency was pleased with the record of all seven mountaineering guide services.
- ²⁰⁰ NPS/AKSO, Commercial Visitor Service Directory, various issues, 1981-1989.
- ²⁰¹ Anchorage Daily News, February 19, 1992, A-1, A-8.
- ²⁰² Anchorage Daily News, March 19, 1992, B-1, B-3; April 12, 1992, E-1, E-9; April 16, 1992, B-2; April 27, 1992, E-8; May 10, 1992, J-1, J-3.
- ²⁰³ NPS, "Mountaineering Summary Report 1992," on DENA website. The Genet Expeditions story is told, primarily from Harry Johnson's point of view, in Peter Porco's "Fall from Grace," in *Alaska* 64 (May-June 1994), pp. 30-37.
- ²⁰⁴ NPS/AKSO, *Commercial Visitor Service Directory*, 1992 through 1994 editions; NPS, "Mountaineering Summary Report 1993," on DENA website.
- ²⁰⁵ Deb Ajango, "The Concessionaire Question," *Alaska Business Monthly* 10 (May 1994), 57; *Anchorage Daily News*, July 4, 1994, B-1, B-3; Jeannie Woodring, "Court Orders Concessionaire Off Mountain," *Alaska Business Monthly* 10 (August 1994), 10; *Jacobs vs.U.S.A.*, et al., June 16, 1994, p. 22, in Jacobs Lawsuit file, DENA Concessions office.
- ²⁰⁶ Concessions Analyst, ARO to Chief of Concessions, ARO, September 1, 1994, in "Mountaineering Prospectus" folder [1994-95], Current Files, DENA Concessions office; NPS/AKSO, Commercial Visitor Service Directory, 1995 through 2006 editions. In an ironic footnote, AAl—despite having its permit taken away—soon returned as an Old Park mountaineering guide because the company, in November 1998, purchased Fantasy Ridge Alpinism, Inc., which had held a concessions permit since 1989. It is still one of the six permit holders. Mary Wysong interview, May 15, 2007.
- ²⁰⁷ Anchorage Daily News, May 6, 1994, E-1; NPS, "Mountaineering Summary Report," 1991 and 1993 through 1995 editions.
- ²⁰⁸ NPS, "Mountaineering Summary Report," 1985 and 1989 editions.
- ²⁰⁹ NPS, "Mountaineering Summary Report 1989," on DENA website; Rosen, "From Ketchikan to Barrow," 11.
- ²¹⁰ Anchorage Daily News, July 14, 1991, O-10; NPS, "Mountaineering Summary Report," 1993 and 1995 editions, on DENA website.
- ²¹¹ Martin Hansen (AKRO Lands Division), in an October 24, 2007 email, notes that the lease for the rescuecache property was signed in 1990.
- ²¹² Roger Robinson interview, January 2007 and May 1, 2007; NPS, "Mountaineering Summary Report," 1989, 1990 and 1995 editions.
- ²¹³ Roger Robinson interview, see above; NPS, "Mountaineering Summary Report," 1995 edition.
- ²¹⁴ [Daryl Miller], "Mount McKinley South Peak, Attempts and Summits," on DENA mountaineering website.
- ²¹⁵ Anchorage Daily News, June 21-24, 1998, A-1.
- ²¹⁶ Anchorage Daily News, August 14, 1998, A-1; August 23, 1998, A-1. The lengthy August 23 article gives an excellent description of the pros and cons of insurance, bonds, fees, and other revenue-enhancing possibilities.

- ²¹⁷ 106th Congress, 1st Session, "Denali National Park and Preserve Rescues" (*Senate Report 106-71*), June 9, 1999, 2.
- ²¹⁸ 105th Congress, 2nd Session, "Mount McKinley Rescue Activities" (*Senate Hearing 105-775*), August 24, 1998, *passim.; Anchorage Daily News*, August 25, 1998, A-1; *Seattle Post-Intelligencer*, August 28, 1998, C-9. ²¹⁹ U.S. Senate, 105th Congress, 2nd Session, S. 2639, introduced October 15, 1998.
- ²²⁰ U.S. Senate, 106th Congress, 1st Session, S. 698, introduced March 24, 1999.
- ²²¹ Senate Report 106-71, June 9, 1999, 5-6; U.S. Senate, 106th Congress, 1st Session, S. 698, various references in www.thomas.loc.gov. After the president signed it, the bill became Public Law 106-486.
- ²²² NPS, "Mountaineering Summary Report 2001," on DENA mountaineering website.
- ²²³ NPS, *Analysis of Cost Recovery for High-altitude Rescues on Mt. McKinley, Denali National Park and Preserve, Alaska*, August 2001, in Talkeetna Mountaineering Center files.
- ²²⁴ Anchorage Daily News, April 25, 2005, B-1, B-2.
- ²²⁵ NPS, *General Management Plan*, November 1986, 21, 27; NPS, "Mountaineering Summary 1991," on DENA mountaineering website; NPS, etc., *Development Concept Plan, South Side, Denali, Alaska*, February 1997, 14-16.
- ²²⁶ Robert K. Yearout (WASO) to Regional Director, Alaska Region, June 11, 1997, in "C3823 IBP Converted to CP (Air Taxi Operation DENA)" file, AKRO Concessions Collection.
- ²²⁷ Federal Register 67 (November 8, 2002), 68157-58; Anchorage Daily News, March 15, 2006, G-1; Jill Morgan emails, May 1, 2007 and May 7, 2007. Between 2002 and 2007, the various carriers were issued a series of one-year permit extensions.
- ²²⁸ Anchorage Daily News, October 15, 1999, C-1; January 18, 2002, B-3; June 15, 2005, B-3; NPS,
- "Mountaineering Summary Report," 2001 and 2002 editions.
- ²²⁹ NPS, Draft Backcountry Management Plan, DENA, February 2003, 39, 49-61, 92-95.
- ²³⁰ Roger Robinson, review comment, August 22, 2007; also see Vern Tejas's comment in the NPS's *Backcountry Management Plan, DENA*, January 2006, 347-48.
- ²³¹ NPS, Draft Backcountry Management Plan, DENA, February 2003, 39, 42, 96.
- 232 Ibid., 50-63.
- ²³³ *Ibid.*, 105; NPS, *Revised Draft Backcountry Management Plan*, DENA (April 2005), 193, 442-68; Mike Tranel interview, October 19, 2006.
- ²³⁴ NPS, Revised Draft Backcountry Management Plan, DENA, April 2005, 43, 55-56, 71-72, 101, 193.
- ²³⁵ NPS, Final Backcountry Management Plan, DENA, January 2006, 38, 48, 54.
- ²³⁶ Anchorage Daily News, March 5, 2006, K-1.
- ²³⁷ Anchorage Daily News, March 15, 2006, G-1, G-10.
- ²³⁸ NPS, "Mountaineering Summary Report," 1995 and 2000 editions, on DENA mountaineering website.
- ²³⁹ Sherwonit, "Mountain of Trash," 35; NPS, *Mountaineering, Denali National Park and Preserve*, on DENA mountaineering website.
- ²⁴⁰ NPS, "Mountaineering Summary Report," 1995, 1996, and 2000 editions; Roger Robinson interview, May 1, 2007.
- ²⁴¹ NPS, "Mountaineering Summary Report," 2000 and 2001 editions; Tom Bol, "Denali Patrol: Rangers Protect Climbers and the Mountain," *Alaska* 68 (May-June 2002), 26.
- ²⁴² NPS, "Mountaineering Summary Report," 2003 edition.
- ²⁴³ NPS, "Mountaineering Summary Report," 2000 edition; Sherwonit, "Mountain of Trash," 68, 70.
- ²⁴⁴ NPS, "Mountaineering Summary Report," 2001 and 2003 editions; Sherwonit, "Mountain of Trash," 70; *Anchorage Daily News*, July 6, 2001, H-10; July 23, 2001, B-1; March 3, 2002, B-3.
- ²⁴⁵ NPS, "Mountaineering Summary Report," 2001 edition; Sherwonit, "Mountain of Trash," 70;
- ²⁴⁶ NPS, "Mountaineering Summary Report," 2002 and 2003 editions; Roger Robinson interview, May 1, 2007.
- ²⁴⁷ NPS, "Mountaineering Summary Report," 2004 edition.
- ²⁴⁸ Robinson interview, May 1, 2007; NPS, *Final Backcountry Management Plan*, January 2006, 51-52; NPS, *DENA*, *Compendium*, Sec. 2.14(b); 2006 edition, p. 14, and 2007 edition, p. 10.
- ²⁴⁹ Sherwonit, "Mountain of Trash," 35, 68, 70; NPS, "Mountaineering Summary Report," 2003 and 2004 editions. In 2001, one ranger noted that "we find a cache about every hundred yards at the end of the season that needs to be cleaned up." Bol, "Denali Patrol," 26.
- ²⁵⁰ Garey Coatney to Associate Regional Director, Operations, May 5, 1989; Rebecca Hallgarth to Chief Ranger, South District, DENA, October 30, 1989; both in "Talkeetna Visitor Center/Roberta Sheldon, DENA-O" folder, AKRO Lands Division files; NPS, "Mountaineering Summary Report," 1989 edition.
- ²⁵¹ NPS, "Mountaineering Summary Report," 1990 edition; Joe Durrenberger to Rebecca Hallgarth, July 9, 1990; Regional Director to Chief, Land Resources Division, WASO, December 24, 1990; Regional Director to Regional Solicitor, December 11, 1991; all in "Retired File/Phillip Wallona, DENA-O" folder, AKRO Lands Division files.
- ²⁵² Anchorage Daily News, March 25, 1992, B-2.

- NPS, Draft Development Concept Plan, Environmental Statement, South Slope, DENA (May 1993), 19.
 Despite that rejection, however, the idea of a Talkeetna-area visitor center remained. The report of the Denali Task Force, in October 1994, recommended small visitor centers at Talkeetna and two other south slope sites, and in March 1996 (see Chapter 10), the revised draft DCP called for visitor facilities and services to be developed at Talkeetna and other points "when the need and opportunity to do so are established."
 SAR, 1993, 7; SAR, 1995, 9; NPS, "Mountaineering Summary Report 1995;" Brad Richie interview, April 30, 2007; NPS, Design Analysis, Mountaineering Contact Station, April 1994, in TIC Collection (184/D-285).
 SAR, 1996, 5; SAR, 1997, 5; NPS, "Mountaineering Summary Report 1996;" Anchorage Daily News, June 7, 1997, B-1.
- ²⁵⁷ "James and Susan Kellard 00008/Talkeetna Parking (Mountaineering Center)/DENA" folder (DENA O-29), AKRO Lands Division.
- ²⁵⁸ NPS, "Mountaineering Summary Report," 2001 and 2006 editions.



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Chapter Fourteen: Mining and Kantishna-Area Management

As noted in Chapters 1 and 2, mining was an established reality in the hills immediately north of the Alaska Range before the first park proposals were offered to the U.S. Congress. On June 4, 1903, Judge James Wickersham located some encouraging gold prospects along Chitsia Creek at the north end of the Kantishna Hills, and the announcement of his find back in Fairbanks soon brought prospectors into the area. Joe Dalton's 1904 discovery along Crooked Creek, along with Jack Horn and Joe Quigley's finds along Glacier Creek early the following year brought nearly a thousand hopeful gold seekers to the area in the summer of 1905, and several instant towns sprang up at river confluences in the Kantishna Hills and along the major access routes. Prospectors soon learned that the area's wealth was indisputable but limited; some claims along Eureka and Glacier creeks produced small fortunes, but elsewhere the mood was pessimistic. In the wake of the 1906 season, the Kantishna District was all but deserted, with all but fifty or so of its former inhabitants off to more promising venues.2

Charles Sheldon, who arrived in the gamelands north of Mount McKinley in July 1906, was well aware of the area's mining activity. With him was mail carrier Harry Karstens, who had prospected in the Kantishna area in 1905 and returned in early 1906. During his visit, Sheldon talked to local miners, passed by their cabins, and witnessed the mining landscape.³ And during his return visit, between August 1907 and June 1908, he became fast friends with Joe Quigley and Fannie McKenzie, two prospectors who lived together on Glacier Creek.⁴

Between 1908 and the outbreak of World War I, the Kantishna area was home to a small, scattered number of miners who were isolated not only from the outside world but even, to a large extent, from each other. Glen Creek, during this period, offered the only cluster of cabins large enough to be called a "town," while other miners were located on Glacier, Eureka, Moose, and other nearby creeks.5 During this period other areas to the south and west were scouted out for minerals; Wesley Dunkle, for example, showed an interest in the area surrounding Slippery Creek in 1915 (although no claims were filed), and along Stampede Creek, "an open cut, excavated in 1916, disclosed a large body of nearby pure stibnite [antimony ore], at least 12 feet thick."6

Mining and the Mount McKinley Park Bill

In the fall of 1915, Charles Sheldon began to campaign for a national park that, among other purposes, would protect the Dall sheep and other megafauna from Fairbanks-area market hunters (see Chapter 2). Since 1909, Alaska had been represented in Congress by Delegate (and former Fairbanks judge) James Wickersham. Sheldon, by good fortune, had met Wickersham a number of times over the years at Boone and Crockett Club dinners. Owing to his 1903 attempt to climb Mount McKinley, Wickersham was familiar with the Kantishna country, and perhaps because he discovered gold in that area, he had a particular sensitivity for the welfare of the area's prospectors and miners. Pragmatic as he was, however, he (like Sheldon) was awestruck by the area's beauty, and he was convinced that a large, forested area between Wonder Lake and the McKinley River should be "withdrawn from disposal and preserved for the use of those who shall come after us..."7

Sheldon, wisely, decided early in the Boone and Crockett Club campaign to see Wickersham and ask for his thoughts on the matter, because he knew that any bill passing Congress would need Wickersham's blessing. By December 1915 they had met, and Sheldon told Stephen Mather (from the U.S. Interior Department) that the area "should be created under provisions which will protect local interests in mining." More specifically, any park bill would need to contain provisions protecting both existing and future mining claims.⁸

As a result, the initial Congressional bills introduced in April 1916 (H.R. 14775 and S. 5716) contained four elements favorable to mining interests. First, Section 2 of these bills stated that those who had existing claims, locations, or entries—whether for minerals or "any other purpose whatsoever"-would be able to have "full use and enjoyment of his land." Second, Section 4 stated "that the mineral-land laws of the United States are hereby extended to the lands included within the park." Third, Section 6 stated—even though the park was "established as a game refuge"-that "prospectors and miners engaged in prospecting or mining in said park may take and kill therein so much game or birds as may be needed for their actual necessities when short of food...". And finally, despite the ameliorating language in Section 4, the park boundaries were drawn so as to eliminate the

Placer mining on Moose Creek, 1982. DENA 5, Denali National Park and Preserve Museum Collection



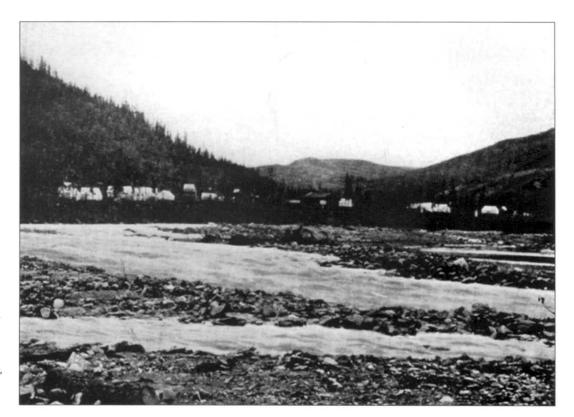
Glacier City, shown above in 1922, was one of the settlements born during the gold rush to the Kantishna District in 1905. Located at the confluence of Glacier Creek and the Bearpaw River, it served as a supply point and overwintering location for prospectors long after other towns were abandoned. L.M. Prindle Collection, #531, U.S. Geological Survey

Kantishna Hills, which was the only known area where mining claims had been located up to that time. During the early months of 1916, the exact location of these boundaries had been debated by Sheldon, Thomas Riggs, and other authorities (see Map 2 in Volume 1), but they remained unchanged during Congress's consideration of the park bill.⁹

As Chapter 2 has noted, that portion of Section 6 regarding the need for prospectors and miners to kill game and birds was debated in the full House on February 19, 1917, and Rep. William Stafford of Wisconsin recommended that the hunting privileges "should be under such regulations as the Secretary of the Interior may prescribe." But Rep. Stafford's amendment, which may have been sponsored by conservationists, was defeated, and the final bill did not include it. The language in Section 4 was also debated that day. Rep. Franklin W. Mondell of Wyoming argued on the House floor that "the mineral laws of the United States, some of them, do not apply to any part of Alaska." As a result, he urged that Section 4 be replaced with the following verbiage: "Nothing in this Act shall in any way modify

or affect the mineral land laws now applicable to the lands in said park." The bill, otherwise unchanged except for minor wordsmithing, was sent on to President Wilson, who signed it into law on February 26.¹⁰

Mount McKinley National Park, the first national park to be established after the passage of the National Park Service's so-called "Organic Act" in August 1916, differed significantly from previous park bills. The first park bill (Yellowstone in 1872) had not prohibited hunting, nor had the 1899 Mount Rainier National Park bill, but later bills—in May 1894 and June 1916, respectively stopped the practice." Other early reservations, such as Yosemite and General Grant (Sequoia) national park, never allowed hunting because of U.S. Army rules.12 The Organic Act of 1916 omitted any specific mention of the subject (only that "the fundamental purpose of the said parks ... is to conserve the ... wild life therein"), but the May 1918 "Lane Letter" that "provided an outline of the administrative policy to which the new Service will adhere" expressly stated that "hunting will not be permitted in any national park."13 As described in Chapter 4, Harry Karstens and



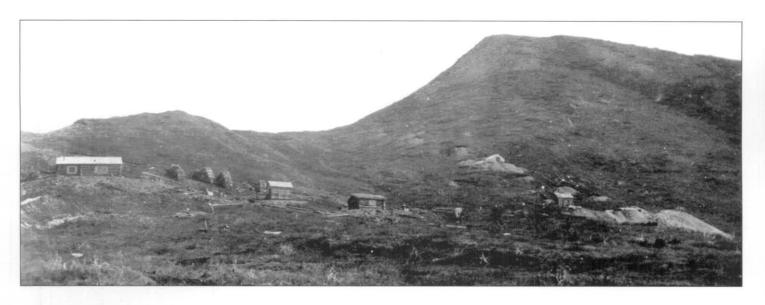
On his way to the foothills of the Alaska Range in 1906, Charles Sheldon travelled through the newly-established gold rush settlement of "Eureka." Situated at the confluence of Eureka and Moose Creeks (seen in the foreground, looking south), this town would later be called Kantishna, the most enduring of the Kantishna gold rush settlements. Charles Sheldon, *The Wilderness of Denali*

other park officials did their best to abide by the provision that sanctioned hunting for local prospectors and miners "as may be needed for their actual necessities when short of food." These officials soon discovered, however, that this policy was difficult if not impossible to enforce in the field. By 1923 the National Parks Committee (an outside group headed by George Bird Grinnell) had passed a resolution asking the NPS direc-

tor to prohibit Kantishna-area mining company employees from killing game in the park "for community service." Congress, however, made no move to banish the practice until January 1928. Alaska Delegate Dan Sutherland admitted, at the time, that "there is no prospecting at the present time in the park area." Four months later, President Hoover signed the game-hunting prohibition into law (see Chapter 4).



Eureka Creek, right, was the location of Joe Dalton and Joe Stiles' most important gold discovery in the Kantishna District. This creek turned out to be the major producer for those early miners, who used hand placer mining techniques. L.M. Prindle Collection, #526, U.S. Geological Survey



Joe Quigley's Red Top Mine was a lode claim located above Friday Creek. The Quigley cabin is seen on the far left, and Fannie Quigley's famous garden is visible below the cabin. John Brooks Collection, 68-32-324, University of Alaska Fairbanks Archive

The other significant difference between the Mount McKinley bill and other park bill was its sanction of mining activity. In the bills that created Yellowstone National Park, Yosemite National Park, and the predecessor to today's Sequoia National Park, Congress included a provision for the preservation of all "mineral deposits."14 The bill establishing Mount Rainier National Park (in 1899) expressly sanctioned the practice, and although a follow-up bill in 1908 prevented the filing of new claims, the presence of existing claims meant that at least some mining-company lands remained within the park until 1984.15 When a bill to establish Crater Lake National Park was introduced in late 1901, House members favorable to mining interests convinced the sponsor to sanction mining, even though no mining had taken place within the proposed park's boundaries. The bill became law in May 1902. Similarly, the 1906 bill establishing Mesa Verde National Park did not prohibit mining or mineral exploration.16 The 1916 Organic Act made it clear that the parks' primary purpose was "to conserve the scenery and the natural and historic objects ... therein" and to "leave them unimpaired for the enjoyment of future generations," and the 1918 "Lane Letter" stated that "the commercial use of these reservations" except in specified circumstances "will not be permitted under any circumstances." In the years that followed, NPS officials made it clear that mining was one of a number of developments that were considered inappropriate in parks.¹⁷ Even so, three additional park units over the years entered the system with a specific allowance for mining: Grand Canyon National Park (1919), Olympic National Park (1938), and Coronado International Memorial (1941). At three other park units— Glacier Bay National Monument (1925), Death Valley National Monument (1933), and Organ Pipe Cactus National Monument (1937)—rights to mineral entry were reinstated after the units

had been established; Glacier Bay, for example, sanctioned mineral entry as the result of a Congressional act that became law on June 22, 1936.¹⁸

Park Mining, 1917-1941

Beginning in the closing days of World War I, mining in the Kantishna area began a resurgence. Joe Quigley leased out his Little Annie Claim on Quigley Ridge, and shortly afterward he began his own work on the Red Top Claim above Moose Creek. Ed Brooker and Mace Farrar worked the Alpha Claim on Eldorado Creek, and two hydraulic outfits-Kantishna Hydraulic Mining Company and the Mount McKinley Gold Placer Company—worked the gravels of Moose Creek and Caribou Creek, respectively. Most of these operations were active by the summer of 1920; those going to and from Kantishna, during this period, typically arrived from the north or northeast and spent little time in the newly-established park.19

The Kantishna Hydraulic Company's operations reached well south of its claims, which were located near the Moose Creek-Eureka Creek confluence. In order to create a consistent source of water for the five "giants," or monitors, the company constructed a 2½-mile-long ditch that spanned the distance between Wonder Lake and its claims. This ditch, six feet wide and two feet deep, began at a dam located at the northern end of Wonder Lake. The operation was active in 1922, but it was abandoned soon afterward because of low gold returns. The dam and ditch, including the lake, was several miles north of the park, but in 1932 portions of the company's nowabandoned improvements became parklands because of a Congressional bill that expanded the park's boundaries.20

As noted in Chapter 3, Congress decided to provide funding for the new park in March 1921.



In 1921, Joe and Fannie Quigley were the first to stake lode claims on Copper Mountain, renamed Mt. Eielson in 1930. By 1922 a small camp (seen above) had been established here, with as many as 50 claims staked over the next few years. B94-22-188, Anchorage Museum of History & Art

Shortly afterward, NPS officials hired the first park employee (Harry Karstens), and by June of that year the superintendent was at work in the park. That summer also witnessed some of the first prospecting activity in the park, and by September Karstens wrote to his superiors that "extensive prospecting" had taken place. Between the Thorofare River and the upper slopes of Copper Mountain, Karstens noted that "there is a wonderful lead there and twenty or thirty claims have been staked." He also noted discoveries "on the upper reaches of the Main Toklat River" and the "headwaters of the Sushana River." As late as the spring of 1923, Copper Mountain had "quite a number of prospectors and miners ... most of them going in by way of the Kantishna District."21

The 1921 Copper Mountain discoveries, not surprisingly, brought others into the park, many of whom fanned out into areas that had not previously been prospected. In the late fall of 1921, prospectors were seen along the Savage and Sanctuary rivers as well as at Copper Mountain and the Toklat, and the following June, Karstens stated that "numerous prospectors have gone into the park this month, destination unknown." In April 1923, "quite a number of prospectors" were going to Igloo Creek, and others headed to Slippery Creek at the southwestern end of the park. That summer, there was a stampede into the Toklat Region, but it turned out to be a "false alarm." By the spring of 1924, the initial prospecting period had apparently run its course, particularly at the park's eastern end; Karstens spoke with a number of prospectors, who "all agree that there are no mineral deposits east of the Stony," and that fall Karstens noted that few prospectors had been seen in that area "in very near a year."22

Some, however, were reaping rewards from what they had discovered. Perhaps the most substantial operation was being run by Owen M. "Red" Grant, a "bona fide prospector" working at Copper Mountain. Others with Copper Mountain interests included Ed Jern, Wesley Dunkle, and John Anderson; Dunkle, as noted above, had shown an earlier interest in Slippery Creek, while Anderson and his wife (see Chapter 4) ran a homestead at the north end of Wonder Lake.²³ By 1923, Bill Shannon had filed a claim at Slippery Creek; the following year, Neil McCall was hard at work on his Sushana River claim.²⁴

Park officials, during this period, paid particular attention to whether park regulations regarding timber cutting and hunting were being followed. They soon discovered that some prospectors were not cooperative. Karstens noted that a man named Armstrong, who prospected along Savage and Sanctuary rivers, "seems to ignore any authority over the park."25 Jack Donnelly, who had prospecting camps along the Savage and Toklat rivers, was spotted twice in 1923 with active hunting camps in the park. (As noted in Chapter 4, Karstens warned him after the first incident but cited him after the second; a February 1924 trial was held in Healy but—despite the "clear case" against Donnelly—a local jury exonerated him.)26 And rules against timber cutting were widely violated. In the fall of 1922, Karstens complained that "very nearly every party traveling through [the park] cuts down good trees to make new camps with." The practice continued into the mid-1920s, when park officials finally stopped it by contacting individual miners and posting public notices in conspicuous areas near where violations had taken place.27



One log structure, the Grant cabin, was built at the Copper Mountain mining camp. The trail through the park passed by this cabin, and most travelers stopped to visit O.M. "Red" Grant, who was known for his hospitality. Edmunds Collection, B91-23-25, Anchorage Museum of History & Art

By the winter of 1925-26, Karstens recognized that a select few in the mining community (which included both Kantishna miners and those working in the park) were "bona fide prospectors" who "abide by all the park rules and regulations" and whose "sympathy is with the Park Service in the preservation of the wild animal life." He ruefully added, however, that "it is only wished that the other prospectors in and around this park were of the same calibre." As noted above and in Chapter 4, Karstens at this time was in the midst of a long battle over hunting by prospectors, one that would not be settled until park hunting was banned in 1928.

To learn more about the park's mining activity, Karstens in early 1926 planned to ask "all miners going into the park to record their entry and also advise this office of the location of their claims." It is not known whether he and the other park staff established such a registration system; given the fact that many miners during this period accessed their claims via the northern river systems, gathering such data would have been difficult without a sustained information-collection effort from park rangers. Karstens passed on to his superiors the need for such a system.²⁹

The idea lay fallow for the next several years, but shortly after the hunting ban was enacted, Congress moved to limit mining in the park by prohibiting the filing of any new mining claims and by ensuring that existing claims were used for mining-related purposes. On April 18, 1929 Gerald P. Nye (R-N.D.), who chaired the Senate Committee on Public Lands and Surveys, submitted a bill—probably at the behest of NPS Director Horace M. Albright—that promised to modify operations at seven different national

parks, including Mount McKinley. Section 2 of S. 196, as originally submitted, noted

That hereafter the location of mining claims under the mineral land laws of the United States is prohibited [at the park]; provided, however, that this provision shall not affect existing rights heretofore acquired in good faith under the mineral land laws of the United States to any mining location or locations in said Mount McKinley National Park.

Nye held a hearing on the bill in April 1930. Before he did so, however, he solicited Albright's views, and during the intervening period the NPS director backed off from some of the bill's original provisions. Albright, in a March 1930 letter to Interior Secretary Ray Lyman Wilbur, noted that the "desirability of taking this action with reference to the whole of this park" had been "carefully considered by this service and discussed with officials of the Geological Survey." But he now felt that "until more opportunity has been had to exploit the mineral possibilities on the west side of the park, the objects of this provision might be satisfactorily accomplished ... by simply prohibiting the location of mining claims on the east side. The use of mining locations for purposes other than to extract the minerals, however, is undesirable and should not be permitted anywhere in the park." He recommended, therefore, that the above section be modified to prohibit future mining claims only in areas east of Stony Creek and its southward extension, and he recommended that the "good faith" clause in the original bill be replaced by one stating that "mineral



Individual miners pursuing their dreams along many of the creeks in the Kantishna Mining District included Louie Fink, shown above at his cabin in 1919 on Little Moose Creek, on the east side of the Kantishna Hills. These prospectors and miners were far from supply points and by necessity had to be able to build cabins, hunt for their meat, and maintain dog teams for transportation. Stephen Foster Collection, 69-92-270, University of Alaska Fairbanks Archives

locations in the park shall entitle the locator only to the minerals in the land and no surface rights, except such as are reasonably necessary to extract the same, may be acquired by virtue of such location."

The Senate's discussion that day led to further changes, and by the time the Committee reported on its work, it decided to recommend that the park establish a registration system rather than an outright prohibition on new mining claims. Section 2 now read as follows:

that hereafter the Secretary of the Interior shall have authority to prescribe regulations for the surface use of any mineral land locations already made or that may hereafter be made within the [park] boundaries ... and he may require registration of all prospectors and miners who enter the park: provided, That no resident of the United States who is qualified under the mining laws of the United States applicable to Alaska shall be denied entrance to the park for the purpose of prospecting or mining.

Given the Senate committee's changes, no further action took place on Section 2 of S. 196. It passed the Senate on May 7, 1930; it was reported out of the House the following January 21, and President Hoover signed the so-called Surface Use Act on January 26, 1931.³⁰ By the time the bill became law, however, mining activity in the park had ebbed. Perhaps because NPS officials were not particularly worried about the effects of mining activity, they made no immediate moves to implement the registration system called for in the statute.

During the late 1920s and early 1930s, little mining or prospecting took place in Mount McKinley National Park. The Copper Mountain, Slippery Creek, Sushana River and other former activity sites were generally quiet, and the Kantishna area just outside of the park boundary was far less active than it had been during the years immediately after World War I. As historian Bill Brown has noted, "By early depression days the population of the Kantishna district and surrounding mining areas had dwindled to less than 20 souls. In 1930 only two miners wintered over at Eureka. ... This was a far cry from the distant days of stampede—a cabin or two with smoke in the pipe, the rest falling and smothered with alders." A minor amount of work, outside the park, was also taking place during this period on Crooked Creek, on the east flank of the Kantishna Hills a few miles west of the Toklat River.31

One of the few minerals to be extracted in the park during this period was coal. By 1931, NPS rangers had become aware of a coal seam located just east of the Toklat River's East Fork. Until this time, NPS rangers had relied on wood to heat their cabins along both the park road and the northern boundary. Many of their cabins west of the Teklanika River drainage, however, did not have an adequate nearby wood supply, and as a result, rangers were forced to haul wood for a considerable distance. To ease the problem, NPS rangers—probably working in concert with better-equipped ARC personnel-mined "several loads of coal" during the summer of 1931. They then hauled the coal over the newlyconstructed road to one of the Toklat River ranger cabins, after which it was to be distributed to several NPS cabins along the park's northern boundary line. Two years later, the Alaska Road



The East Fork coal mine was located less than a mile up the small creek drainage toward Sable Pass from the Alaska Road Commission's East Fork cabin. This mine had a section of narrow gauge railroad track and a tipping car for transporting the coal. Ickes Collection, B75-175-306, Anchorage Museum of History & Art

Commission showed an interest in the seam as well, and that August, several additional loads were mined and "hauled to some of the cabins where wood is not available."32 Activity at the site eventually included a short railroad track and coal car; production continued at least until 1934. Three years later, the mine was reactivated and 45 tons of coal was extracted there. The park concessioner, the Mount McKinley Tourist and Transportation Company, probably did so to heat its Camp Denali buildings, located at Mile 66 on the park road.33 After the 1939 season, park officials learned that coal mining there (and elsewhere in the park) was prohibited. Despite that news, however, NPS rangers in September 1940 hauled coal (perhaps a previously-mined deposit) from the East Fork mine to the newly-constructed Wonder Lake Ranger Station. No known mining has taken place at the site since then.34

Kantishna Mining and the NPS, 1937-1945

As noted in Volume I, the park road that was begun in 1923 was completed to Wonder Lake in 1936, to the northern park boundary in 1937, and to its terminus in Kantishna in 1938. In anticipation of the road's completion, and in response to higher gold prices, the Kantishna district (in the words of historian Ann Kain)

moved into a boom period. Several mills were constructed to process the ores from lode mines, and placer mining moved into a new phase with the introduction of new equipment. As

a result, over the next few years, the Kantishna District produced more gold, both lode and placer, than at any earlier time.³⁵

The first to take advantage of the area's easier access was General A. D. McRae of Vancouver, B.C. In the summer of 1933—several years before the road's completion—he took an option on Joe and Fannie Quigley's Red Top and Little Annie properties. That September, the concessioner hauled 50 tons of freight to the end of the road (which was Mile 70 at that time), beyond which the ARC agreed to use caterpillars to complete the haul. A two-man crew drilled a 1,000-foot tunnel at the Little Annie Mine, only to discover that the ore samples were too low-grade to be profitable. Soon afterward, the option was dropped.36 The January 1934 near-doubling of the price of gold (from \$20.67 to \$35 per ounce) brought new investors into the Kantishna area, and in 1935 the Quigleys leased the Banjo gold claim to Ernest Fransen and Clifton Hawkins, two longtime Fairbanks-area "hard rock men." These men, together with Fairbanks businessman A. Hjalmar Nordale, formed the Red Top Mining Company; they purchased several more of the Quigley properties. Their operations, together with those of the Caribou Mines (a dry-land dredging operation on Caribou Creek) brought forth the "Golden Years of Kantishna Mining," which lasted from 1937 to 1942.37

The increased value of gold encouraged mineral development throughout Alaska. Within the na-



The Banjo Mill, pictured here in 1939, was located on the east end of Quigley Ridge on the Banjo claim, and was the first attempt to mill lode gold locally in the Kantishna District. The six-level mill was built in 1937-38 and was operated by the Red Top Mining Company from 1939 to 1942. Alaska Road Commission Collection, 61-18-121, Alaska State Library

tional park, however, the only new development site was at Slippery Creek, which was some 25 miles southwest of Kantishna. As noted above, Bill Shannon had established claims in the area in 1923, but major development work awaited the arrival of Wesley Dunkle. The man known as "Alaska's Flying Miner" took an option on the property in 1936 and, with help from the Anaconda Company, sent a crew out in the early spring of 1937. The mine attracted considerable attention until poor metallurgical tests forced Dunkle, late in 1937, to write the project off as a bad investment.³⁸

The renewed interest in gold mining during the late 1930s had a second impact on the park because it brought increased traffic to the

park road. The park's leaders were doubtless aware that the road had been built to access the Kantishna mines as well as to areas of pre-eminent scenic vistas and wildlife habitat. At first, park leaders saw few conflicts regarding the dual purpose of the park road (only that "trucks of the Kantishna mines ... were pulled out of ditches several times" one summer).³⁹

Just two years after the road was completed, NPS officials broached the idea of charging fees for commercial vehicle traffic on the park road. Previous regulations had made no requirements for either motor vehicle permits or motor vehicle fees, but in April 1940, the agency's General Rules and Regulations (Section 2.40) were amended to read "Where required, no motor



The Carrington Company's introduction of large-scale, mechanized mining technology in 1939 brought an end to small-scale mining methods on Caribou Creek. The dryland dredge, shown above in 1939, was operated until 1942. Alaska Road Commission Collection, 61-18-138, Alaska State Library



Park managers and Alaska Road Commission personnel were well acquainted with the Kantishna District's residents, as evidenced by this 1931 photo taken at the Quigley cabin on Friday Creek. Pictured from left to right are Joe Quigley, Betty Edmunds (wife of ARC foreman Chris Edmunds), Fannie Quigley and park superintendent Harry Liek. DENA 3831, Denali National Park and Preserve Museum Collection vehicle may be operated in the parks or monuments without a permit. ... Permits are issued upon payment of the required fee."40 After Washington officials apprised him of the new rule, Superintendent Been railed against it; he stated that "As privately owned passenger vehicles are used so seldom and the trucking now done by the Kantishna mine operators is not a problem, it appears desirable to refrain from requiring permits. ... The bus trips of the park operator function quite closely to a schedule and present no serious problem to date." Been asked NPS Director Arno Cammerer to include Mount McKinley as an exception to the general regulation.41

Washington officials, in response, mulled over the idea for almost a year. In March 1941, the agency issued new regulations, and although Section 2.40 was left largely intact, they made no move to require either permits or fees for all vehicles on the park road. But the same regulation package had a newly-reworded portion (Section 2.37) that dealt with commercial trucks. It stated that the use of any park road "by commercial trucks, when such trucking is in no way connected with the operation of the park or monument, is prohibited, except that in special cases trucking permits may be issued at the discretion of the Director, for which a special fee will be charged."42 Given the fact that commercial truck traffic over the Mount McKinley park road, by this time, was an accomplished fact, NPS officials had little choice but to grant permits to Kantishna mining companies and to charge a fee for the companies' use of the park road. Park employees, in June 1941, reacted to Washington's ruling by recommending an annual \$5 fee for 11/2-ton trucks and a \$10 fee for 21/2- and 3-ton trucks. But the two Kantishna-area mining companies (Red Top Mining Co. and Carrington Company/Caribou Mines) fought the proposed fee and, citing low profits, aired their grievance to Alaska Delegate Anthony Dimond. This action effectively postponed an agency decision on the matter, but by March 1942, the NPS had overcome those objections. Been, in his monthly report, noted that "special permits were issued to two gold mining companies to use the park highway for truck freighting of mine supplies and equipment.



Johnny Busia posed for this photograph at his Neversweat lode claim on Eldorado Creek. Denali National Park and Preserve Museum Collection

This is the first time that a fee has been charged for commercial use of the road."43

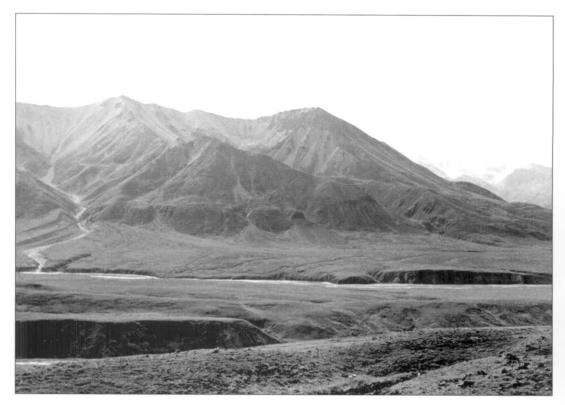
The onset of World War II—had a varied impact on the mining industry, both in the park vicinity and elsewhere in Alaska. The War Production Board's issuance of Limitation Order L-208 on October 8, 1942 forced the closure of most nonessential gold mines in the United States, including those at Kantishna. But the war also brought about a relaxation on regulations (in place since the passage of the 1872 mining law) that required miners to perform \$100 worth of annual assessment work on their claims.44 The war also created a renewed demand for many minerals because of their strategic value, and by September 1942 park authorities were announcing that "the park highway may become an artery for [the] flow of strategic metals." Ernest Maurer, from Fairbanks, began production that fall on an antimony mine along Slate Creek (at the southwestern end of the Kantishna Hills) and hauled ore over the park road in both 1943 and 1944.45 Earl Pilgrim, at Stampede Mine in the Toklat River drainage (see below), ran a much larger antimony mine but did not use the park road, and Owen M. Grant optioned his Copper Mountain lead-zinc property—"the only mine in the park in which assessment is kept up," as of September 1942-to a Canadian company that inspected the site's ore body but ultimately decided to not develop it.46

In the midst of the new whirlwind of economic activity, several small, long-time prospectors soldiered on at claims that had been worked for

a generation or more. Joe Dalton, who had been prospecting in the area since 1904, continued to reside along Moose Creek; Fannie Quigley lived nearby, as she had since 1906; and Croatian-born "Little Johnny" Busia, who moved to the Kantishna in 1918, continued to trap and prospect from his Moose Creek cabin. Given the easier accessibility that the park road provided, groups of tourists and even dignitaries occasionally dropped in on the aging residents.⁴⁷ Park rangers did, too; Grant Pearson, who had met Quigley shortly after his park tenure began in 1926, told a host of stories about her, and he used a trail built in the early 1920s—and still used today—that wound north from the Kantishna Ranger Station (McKinley Bar cabin) toward the Kantishna district. Pearson was also fond of Busia, whom he interviewed in 1943. Pearson and other park staff were saddened indeed to hear about Dalton's death in April 1944 and Quigley's four months later; thereafter, park personnel dubbed Busia the "mayor" of Kantishna and did what they could to assist him.48

Mining in Kantishna and the Park, 1945-1975

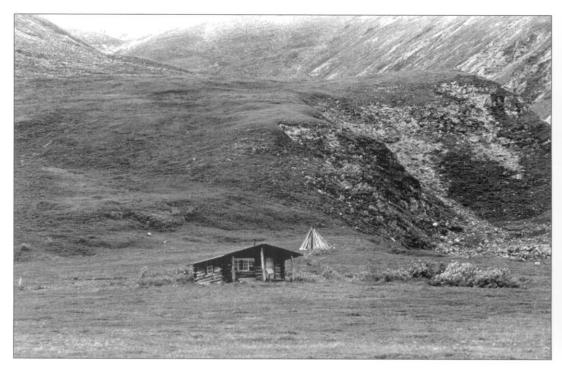
After World War II, some commercial mining took place on the park's margins; the largest lode mine in the area was the Stampede Mine (see next section), but in addition, Frank Bunnell operated the Neversweat lead-silver prospect near the confluence of Eldorado and Reinhart creeks. Bunnell worked the prospect, which had previously been Johnny Busia's, off and on between the late 1950s and the late 1960s, but it produced only a marginal amount of ore.⁴⁹



Harold Herning, a former park ranger, began developing his Mt. Eielson mining claims in 1954 by hauling a pre-built log cabin to the former Copper Mountain mining camp site. Part of his road can be seen above the Thorofare River bar and to the right of the prominent drainage on Mt. Eielson. DENA 16-17, Denali National Park and Preserve Museum Collection

More numerous were gold placer operations, which cropped up in various Kantishna Hills locations during this thirty-year period. Johnny Busia, for example, ran a "shovel-in" operation along Moose Creek during the late 1940s.⁵⁰ The largest commercial venture during this period was the Caribou Mines. This 14-man operation was run by the Carrington Company of Seattle and operated on Caribou Creek from 1946 to 1949; its equipment was then used by the Glacier Creek Mining Company, which operated during the 1949 season. Other operations were smaller,

with crews of six or less. They included the Hosler Mines, on Moose and Eureka creeks, run by Elmer and D. G. Hosler between 1948 and 1952; Dewey Burnette and Martha (Margaret) Hunter, who operated on Crooked Creek between 1947 and 1956; Paul Omlin, who had a one-man operation on Little Moose Creek in 1955 and 1956; Arley Taylor and Associates, who operated on Eureka Creek beginning in 1959 and perhaps as late as 1966; the Stuver Brothers, who operated on Moose Creek during the 1961 season; George Blackman and A. H. Dyer, who operated on



Harold Herning's cabin on Mt. Eielson, pictured here in the 1960s, was built next to the remains of the former Grant cabin at the Copper Mountain mining camp. Cultural Resource Files, Denali National Park and Preserve



Johnny Busia, seen above in 1947, used hand placer mining methods. He lived in Kantishna from 1918 until his death there in 1957. Oscar Dick Collection, Denali National Park and Preserve Museum Collection

Friday Creek between 1961 and 1963; the Glen Creek Development Company, which was active on Glen Creek during the 1960s.⁵¹ Most of these were mechanized operations in which a dragline or bulldozer (perhaps both) were used to gather and process the gold ore.

During this thirty-year period, the only known commercial mining that took place in the park consisted of a small amount of building-stone extraction during the early-to-mid 1950s and a small amount of antimony mining during the mid-1970s.52 A few others tried to develop their property, but without commercial success. Perhaps the most visible mining operation was that of Harold Herning, who, according to a July 1954 NPS report, "improved the old road from the highway to the Thorofare River gravel flats and ... hauled in logs with which to erect a cabin." Herning, who had filed on a series of claims in June, built the cabin and an adjacent wall tent later that summer; he accessed his cabin and nearby claims with a "truck and halftrack." Members of his family returned to the site for more than twenty years. Portions of his access route are still visible today, and his cabin has long been an object of interest to those who have enjoyed the view from Eielson Visitor Center, just two miles to the north.53

Most miners during this period (those with claims either in the park or in the Kantishna area) had a number of interactions with the NPS; they often met park staff while driving out the park road, and paperwork was needed to gain road access or to obtain a prospector's permit. Existing records indicate that the NPS, following Congress's lead (see above), did not charge commercial mining companies for their use of the road between 1943 and 1949, inclusive. In 1950, the agency assessed two mining companies a \$20 annual fee.54 But by 1952 (and perhaps by 1951) the fee had apparently been waived, and the NPS did not assess road-use fees to miners in later years.55 The miner with the most extensive NPS contacts during this period was Johnny Busia, who seldom if ever used the park road. By the late 1940s, the lone sourdough was a well-known figure, both locally and throughout Alaska, and NPS staff stayed in contact with him by radio throughout the year via periodic weather and wildlife reports.⁵⁶ Busia died on August 20, 1957, just two weeks after the Denali Highway made Kantishna easily accessible to the motoring public.57

In 1931, it may be recalled, Congress had given the Interior Secretary (and, by extension, park officials) the "authority to prescribe regulations for the surface use of any mineral land locations already made or that may hereafter be made" in the park and also the authority to "require registration of all prospectors and miners who enter the park." Because of a lack of mining activity, no moves were made during the 1930s to establish park-specific mineral regulations. This near-total absence of mining activity continued during the postwar years. As noted in the sections below, there were three major proposed or existing mining developments that consumed NPS officials' attention during the postwar period. Given those developments, the NPS—consistent with overall agency goals—did what it could to prevent a resurgence of mining exploration and development. It first moved to establish an area where the mining laws would not be applied, and then expanded the number and size of these areas, as needed.

The first proposed large-scale mining development emerged shortly after World War II. In August 1947 (see below), NPS officials became aware of the potential economic value of a large limestone deposit just east of Little Windy Creek, near the southeastern corner of the park, and in October 1948, development interests staked five claims in that area. Hoping to protect the surrounding area, the NPS withdrew approximately 6,200 acres of surrounding land in December 1948, and in order to prevent speculative mining development, the Interior Secretary implemented park mining regulations in February 1949 that required registration, an annual prospector's permit, and other provisions. In February 1951 the withdrawn area was increased to approximately 119,000 acres; seven years later, in June 1958, the withdrawal was revoked. The regulations that were implemented in February 1949 remained in effect until 1976, when Congressional passage of the Mining in the Parks Act eliminated future mineral entry in the park.58

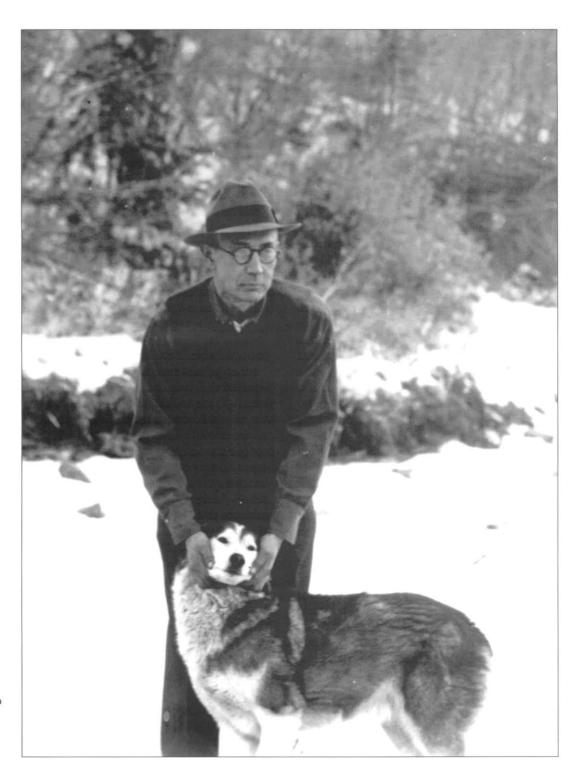
In 1952, a corporation's attempts to extract building stone from the park (see below) brought forth two proposals to withdraw a cumulative total of approximately 81,050 acres of land along the park road. Those proposals, which called for large amounts of land to be withdrawn in the hotel-headquarters and Wonder Lake areas but a narrower corridor between those areas, were advanced in August and September 1952 but never implemented. But by May 1957, the nearcompletion of the Denali Highway had brought forth a revival of interest in the park by prospectors and miners. Superintendent Duane Jacobs, at first, denied permits to several individuals, but to ensure greater protection, he requested the issuance of a public land order that would preclude mining and prospecting within 1.5 miles

of the park road. (At that time, he apparently was unaware of the 1952 proposals.) He was soon assured, however, to learn that a "request for withdrawal of lands adjacent to the park road ... is in effect" even though his request had not yet been processed. Shortly afterward, on June 4, the Interior Department inserted a proposal in the Federal Register to withdraw the same road-corridor parcels that had been attempted five years earlier.59 Almost a year later, in early May 1958, the Department announced that it would finalize the withdrawal. On June 28, 1958, the Interior Secretary's office issued a public land order stating that 81,050 acres along the park road corridor was being reserved for "administrative sites and the protection and preservation of scenic and recreational areas," and to accomplish those purposes the acreage was "withdrawn from all forms of appropriation under the public-land laws, including the mining laws."60

Earl Pilgrim and the Stampede Mine

Sometime before World War I (see above), prospectors located a promising body of stibnite (antimony ore) along Stampede Creek, a tributary of the Clearwater Fork near its confluence with the Toklat River. Except for excavating an open cut, however, no one tried to develop the property commercially for more than twenty years.61 In 1936, however, longtime Alaska resident Earl R. Pilgrim obtained the claims and transferred them to Morris P. Kirk and Son, Inc., a National Lead Company subsidiary. Pilgrim himself signed on as the company's on-site manager. Given the larger company's muscle, it constructed a ball mill in 1939. Before long the mine was the largest antimony producer in Alaska and second largest in the country. By the spring of 1941, when high costs forced the mine's closure, more than 2,500 tons of ore and concentrates had made their way to the Alaska Railroad and to more distant processing facilities. At first, the company had used a Caterpillar tractor and double-ender sleds to haul its ores out during the late winter months; from the mine, goods went eastward to the Lignite railroad stop over a sinuous route that was similar to the "lower route" that Alaska Road Commission personnel had surveyed during the early 1920s (see Chapter 3).62 By the summer of 1941, however, Pilgrim had added another transportation option by blading out an airstrip 21/2 miles downstream from the mine, at the Stampede Creek-Clearwater Fork confluence. 63 Neither of these transportation methods trespassed on Park Service property, so perhaps as a result, park officials knew little during this period about the nature and scope of Pilgrim's activities.

In the spring of 1942, Pilgrim bought the mine and mill complex and, given a spike in antimony

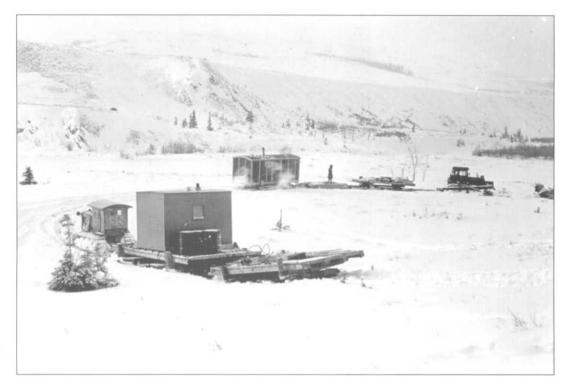


Earl Pilgrim and his beloved dog, Kobuk, are pictured here in the late 1930s at the Stampede Mine. Pilgrim was a mining engineer who played an active role in the Stampede Creek antimony claims from the 1930s through the 1970s. Sarah Isto Collection

prices, he immediately set to work reopening the mine. Perhaps using his years of experience as a mining engineer, Pilgrim was able to persuade both the U.S. Bureau of Mines and the U.S. Geological Survey to send technical crews out to the property that year. These crews doubtless helped steer Pilgrim toward promising new ore bodies. ⁶⁴

Recognizing the prevailing high transportation costs, the war emergency, and the need to expeditiously get this strategic ore to market, Pilgrim petitioned the ARC for authorization to build a

"tractor-trailer wagon and truck road" from the mine to where the park road bridged the Toklat River. Pilgrim offered two routes: a 26½-mile option that lay entirely within the Clearwater Fork and Toklat River beds, and a 20½-mile option that included a three-mile cross-country segment spanning the low divide between these two drainages. Park superintendent Frank Been, upon receiving the request, rejected the shorter route because it would "require construction overland on park lands," but he cautiously supported the 26½-mile proposal. He recognized that "the wide gravel beds of Alaskan glacier



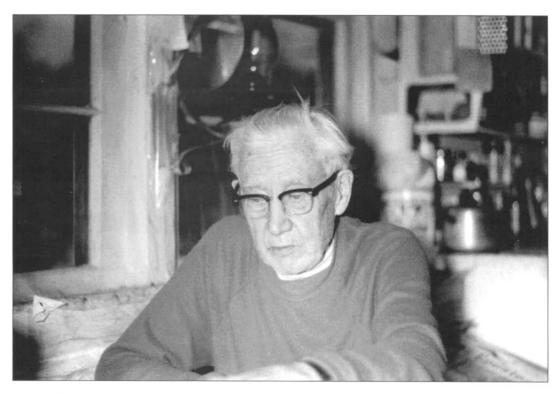
Transportation of antimony ore from the remote Stampede Mine to market was a major difficulty. This late 1930s or early 1940s photograph shows tractor trains pulling wanigans and largely empty sleds. The tractor trains are presumably headed back to Stampede from the Alaska Railroad at Lignite, where ore was unloaded for shipment. Sarah Isto Collection

streams are commonly used for trucking and tractor hauling," and more specific to Pilgrim's letter, he stated that "the meandering nature of the Toklat River will erase the road from the gravel stream bed within a year or two after hauling ceases." Inasmuch as Pilgrim had purportedly opened the mine "solely as war production work," Been was willing to authorize the road, but "only for the war emergency." Been's recommendation was quickly seconded by NPS Director Newton Drury. Pilgrim, however, did not follow through on the proposed road, and he abandoned the idea in 1944.

In 1946, Pilgrim optioned the property to other investors, and in May 1948 the mine's new managers requested permission from the NPS to construct an "ore trucking road" connecting the mine with the park road. This request called for the shorter road option, in which several miles of right-of-way strayed away from riverbeds. NPS officials at the Washington level were initially favorable to the idea. But because the operators were purportedly "involved in shady financing," Superintendent Been was less enthusiastic about it and recommended that the Bureau of Mines decide whether the ore body could be profitably



This early 1970s photograph shows the Stampede Mine's lower camp. The buildings, left to right, are the garage/shop, the "covered warehouse", cache, house and office, and the greenhouse with a weather station in front of it. Not shown are the bunkhouse and mess house at the upper camp, and the warehouse, dynamite shed and assay office slightly downstream. Sarah Isto Collection



Earl Pilgrim is pictured here in his Stampede Mine home and office cabin in 1976, at the age of 84. Linda S. Barb Collection

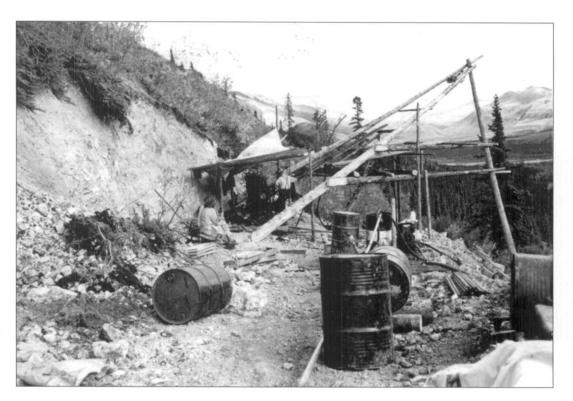
developed. This road request eventually reached the Alaska Road Commission; it was not acted upon because the ARC, given its meager budget, was unable to carry out the work.⁶⁶

In 1954, Pilgrim revived his interest in the mine after obtaining a Defense Minerals Exploration Agency contract, and as part that effort he renewed the proposal—first advanced in 1942 and renewed in the late 1940s—to build a 201/2-mile road from the mine to the Toklat River bridge. In mid-July, NPS officials flew over the proposed route, and shortly afterward they discussed the road project with Pilgrim. Superintendent Grant Pearson, who by this time had worked with Pilgrim for years, saw advantages to the road; as historian Bill Brown noted, the road would not mar scenery near the park road, and it would give the park vehicular access to the park's Lower Toklat Patrol Cabin, which would considerably ease supplying this and other boundary cabins. Pearson's support proved crucial, and within a month Washington officials had also approved the route. But the following year, park officials decided to be more cautious, and the special use permit that Pilgrim signed in early 1955 granted authorization to use the longer (261/2-mile) route that remained within the park's riverbeds. The ARC, again, was unable to fund the necessary road improvements, and the project lapsed.67

Pilgrim again produced ore at the mine in 1956 and 1957. In 1956, he made two ore shipments out to the railroad, both via tractor train over the route that he had pioneered in the 1930s.⁶⁸

Perhaps because of the toil and expense of those trips, he made a renewed attempt in late 1957 to obtain a connecting road along the Toklat River corridor. Since receiving his previous approval, however, the park had undergone significant changes: Superintendent Pearson had retired and been replaced by Duane Jacobs, the park (and the entire agency) had proposed and approved its Mission 66 plans, the Denali Highway had been completed and brought thousands of new visitors to the park, and conservationists had caught wind of the road project and openly disapproved of it. Given those changes, a park official informed Pilgrim that the proposed road was no longer compatible with park values. Pilgrim met with Jacobs the following spring and stressed the NPS's hypocrisy in opposing a road that had been granted three previous times. Jacobs, in response, openly worried that the approval of a temporary, ad hoc road would soon mushroom into the need for an improved, permanent road. He relayed his concerns to his superiors in San Francisco and Washington, who showed no inclination to disagree with the superintendent's decision or rationale.69

Lacking the Toklat option, Pilgrim now tried to interest officials with the new State of Alaska in improving the old route that connected the mine with the Alaska Railroad stop at Lignite. (See Chapter 9.) Seizing on the provisions of the Pioneer Access Road Act of 1959 and its 1960 amendments, Pilgrim contacted state Department of Natural Resources officials in May 1960. His request eventually reached Division of Highways officials, who supported the project not



After World War II there was high demand for cement in the territory of Alaska. To assist with mineral evaluation, the Bureau of Mines investigated limestone claims along the Alaska Railroad corridor in an area just west of the Windy railroad stop. This July 1950 photograph shows one of the drilling sites. DENA 16-6, Denali National Park and Preserve Museum Collection

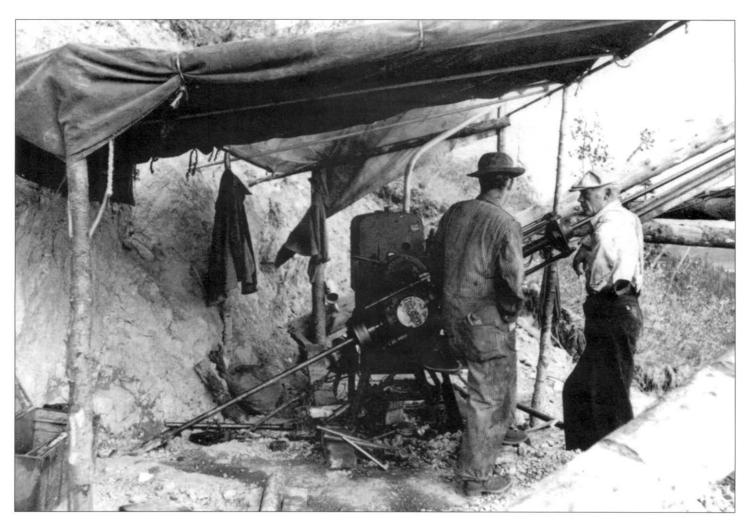
only on its own merits but because it portended possible future routes to Kantishna and even McGrath. That November, Yutan Construction Co. of Fairbanks submitted a low bid of \$250,000 to build a road between Lignite and Stampede, and the work was declared to be complete in October 1961.70 The route was laid out so poorly that the only round trip by a four-wheel-drive vehicle was one accomplished by the project inspector. Despite the mine's continuing access problems, however, Pilgrim continued to produce antimony ore during this period, in 1964-65 and again in 1969-70.71

Plans to Mine Limestone Along Windy Creek A second area of mining-related concern during this period pertained to the potential development of limestone claims in the southeastern corner of Mount McKinley National Park. Since the early 1930s, geologists had known that the Cantwell area had contained limestone deposits; what remained unknown, however, was "whether or not the larger or better deposits [of those all along the Alaska Railroad corridor] were in the Park."72 To find out more, members of the U.S. Army did some investigating in 1946 in the area immediately west of the Windy section camp. That interest, in turn, brought a U.S. Geological Survey field party to the area the following summer. An NPS ranger spotted the USGS crew along Windy Creek on August 3, and five days later its leader, Edward Cobb, briefed Superintendent Frank Been on the matter.73

Been soon learned that the crew's presence portended major changes for the park. In the

wake of World War II, the demand for cement was far higher than it had been in previous years, and in response to that demand, territorial leaders did what they could to push for the establishment of a cement plant along the Railbelt. The U.S. Geological Survey's field party was a technical response to those plans, the purpose of which was to search for economic deposits of limestone, clay and coal within fifty miles of the Alaska Railroad. At the August 8 meeting, Been was surprised to learn that the park's limestone deposits were of special interest because no other limestone deposits had yet been identified in the railroad belt; and because promising clay deposits had already been located in the Healy-Suntrana area, Cobb told Been that "a cement plant might be feasible near Healy or Cantwell." Soon afterward, Cobb's superior confirmed his agency's interest in the park; he noted that "the studies apparently are now focused close to the railroad just inside the southern Park boundary. The area being investigated is small, a few square miles at most, and the studies include geologic appraisal of the deposits as well as the topographic mapping on a large scale of the vicinity of the better deposits."74

The USGS investigations set in motion a series of events that involved NPS, Interior Department, and territorial officials as well as the U.S. Congress for the next several years. Historian Claus-M. Naske has provided an excellent overview of this proposal, which readers seeking a detailed account are invited to read. As it pertained to NPS interests, however, the primary question was whether limestone-development advocates



The purpose of the Bureau of Mines investigation was to determine the economic viability of limestone deposits near the railroad. DENA 16-8, Denali National Park and Preserve Museum Collection

would be able to gain access to the park; and if so, how the NPS would respond.

By late August of 1948, two different companies had told the Interior Department of their interest in building a cement plant in Alaska. One of those companies, the Northern Empire Development Company of Anchorage, asked the department for permission to obtain the park's limestone deposits. The company's president, Arthur E. Beaudin, told Interior Secretary Julius "Cap" Krug that he had investigated several possible limestone deposits, but the park offered both limestone and clay deposits that were "associated in a sufficiently reasonable manner to encourage the hazards of a business venture." Interior Department officials, by this time, knew that project developers hoped to establish a cement plant adjacent to the railroad in the vicinity of the limestone deposits. They were also well aware that agencies within the department differed on the wisdom of further development; the NPS, given the choice, wanted "to protect the area from commercial use," but the Alaska Railroad, the Geological Survey, the Bureau of Mines and the newly-established Alaska Field Committee all advocated resource development. Assistant Interior Secretary William Warne,

trying to steer a middle course, was concerned about possible encroachments on the park, and inquired about "limestone areas outside the park which might be comparably abundant and advantageously located." He also learned—based on the January 1931 law noted above—"of the Secretary's authority to prescribe regulations for mining even though mining is permitted."76

To resolve the issue, a meeting was held on September 5 between Assistant Interior Secretary C. Girard Davidson and representatives of the NPS, Alaska Railroad, and Bureau of Mines. As a result of that meeting, Davidson learned that no comparable limestone areas existed within the railbelt; perhaps as a result, he authorized the Bureau of Mines to drill "two horizontal cores at the base of the limestone ridge" which was located "several miles inside the park."77 NPS Director Newton Drury also telegraphed his approval of the drilling plan, and by mid-September a Bureau of Mines crew had begun its work at the site. On October 9, in the midst of those efforts, three Beaudin employees flew to the area and staked five twenty-acre limestone claims within the park boundaries. These claims were located "near the left limit of Windy Creek about one mile north and near mile 324 on The Alaska Railroad."78

Interior Department officials, in response to the claims, took a hard protectionist line. Secretary Julius Krug noted that "it is my firm policy to prohibit any and all commercial mining operations within the Park boundaries unless overwhelming evidence can be presented to indicate that the proper development of Alaska would require mining the [park] resources. No evidence has been presented to this end..."?9 To further protect the area, they made two additional moves. The first was to take steps to implement the mining regulations that had been authorized back in January 1931, and the second was to withdraw a large area surrounding the five claims from further mining activity.

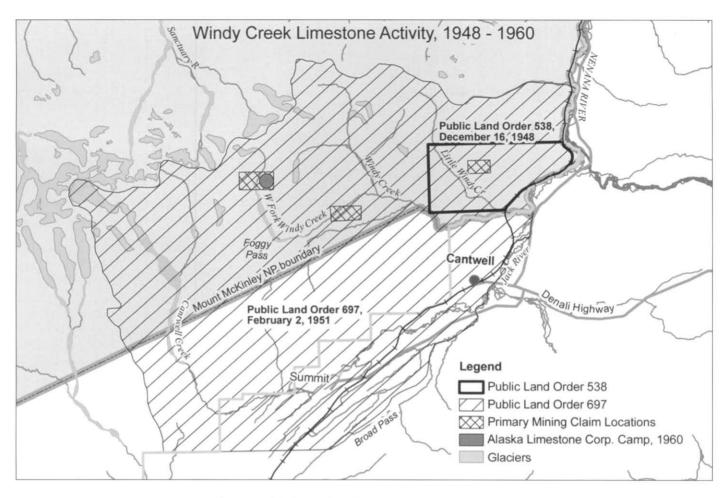
The move to establish mining regulations in the park, noted as an option during a mid-August meeting (see above), began in earnest during discussions of a subcommittee of the Alaska Field Committee, the purpose of which was "to examine the law relating to mining in the park." The group, in its October 8, 1948 report, reiterated that the Interior Secretary, if desired, "could issue special regulations governing [prospecting] activities in the Park but as yet has not done so." When the Committee discussed the proposed development at its October 8 meeting, it expressed "considerable concern ... over the possibility that claims may be staken on the deposit by unscrupulous persons, thereby permitting them to maintain a monopoly control over any future cement industry in Alaska."80

Ten days after the committee met, Assistant Interior Secretary William Warne recommended that the NPS "draft an appropriate Secretarial order" that would I) reaffirm the applicability of the mining laws within the park, but 2) provide the authority to require registration for all prospectors who enter the park and to prescribe mining-related regulations. The committee's director, Kenneth Kadow, wrote Warne soon afterward; he summarized the committee's recent discussion on the matter and recommended "that the regulations should do everything in their power to facilitate practical development." A regional NPS official, however, worried that "many strategically located mineral deposits within the park will be filed upon, proved up on, and go to patent for purposes other than mining." He therefore recommended that language contained in the 1936 Congressional act (which had opened Glacier Bay National Monument to mining) be applied to Mount McKinley National Park. On November 26, NPS Director Drury forwarded language for the proposed regulation to Secretary Krug.81 Two weeks later, however, Supt. Been weighed in and strongly supported an annual registration requirement for prospectors

and miners. Based on these and other comments, NPS personnel revised the regulations language, which Drury forwarded to Krug in early February 1949. Krug accepted the revised regulations on February 19, and they became effective on March 3. The final regulation, which became a park-specific special regulation within the *Code of Federal Regulations*, had three parts. First, it required that all prospectors register before entering the park. Second, it demanded that all prospectors fill out a specific, seven-part registration form that needed to be renewed each year. Third, it established regulations governing how prospectors could use, and gain access to, their mining claims. 82

The idea for a withdrawal area began at an Alaska Field Committee meeting in early October 1948. The committee considered Governor Ernest Gruening's motion to support an authorization measure for a cement plant in the park83, and soon afterward it voted favorably on that measure. NPS officials, recognizing the groundswell of both public and private support for the plant and the apparent lack of other economically-viable plant locations, reacted in two ways. First, they proposed that the acreage surrounding the mining claims, and the proposed plant site, "might be withdrawn as a Public Use Site, to protect the interests of the government in the venture."84 In addition, they tentatively decided to excise the limestone area from the park. Assistance Secretary Warne, recognizing the necessity of this two-pronged approach, asked the Bureau of Land Management to prepare a public land order that would "withdraw certain lands within the Mount McKinley National Park in aid of proposed legislation to provide for the proper development and disposition of limestone deposits in the area." By mid-November, the proposed order, which called for 6,200 acres to be withdrawn "from all forms of appropriation, including the mining laws," had been forwarded to Interior Secretary Krug and other federal officials. (See Map 7.) The BLM Director approved the proposed order on December 10, and it was implemented eight days later.85

In the meantime, momentum continued to build for a measure to authorize the plant's construction. Based on Gruening's measure at the October 1948 Alaska Field Committee meeting, there was a general recognition that Alaska Delegate E. L. "Bob" Bartlett would be introducing authorization legislation in Congress. And although some in the NPS may have had misgivings about the plant, agency officials made no moves to impede it. In mid-September, Secretary Krug had written that "the existing [park] boundaries [in Alaska] were established without adequate



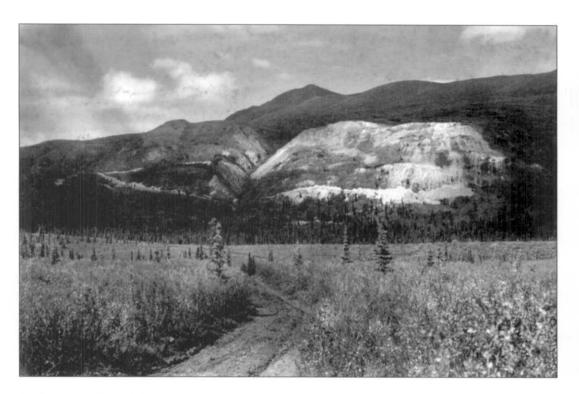
Map 7. Windy Creek Limestone Activity, 1948-1960

consideration of Park needs and I would not be willing to assume that they are reasonable or proper." The NPS's Hillory Tolson, in response, allowed that "in this the Secretary is undoubtedly right, and ... if it is at all possible, a boundary study should be made of our Alaska areas next summer, with particular emphasis on Mount McKinley and Katmai."86 Supt. Been, upon receiving Tolson's memo, noted that "assuming that quarrying and cement manufacturing do develop near Windy Creek, the need for changing the boundary may have to be faced" and offered specific suggestions for a realigned boundary. And Director Drury, upon receiving Arthur Beaudin's request for "certain lands ... to permit the establishment and operation of a cement manufacturing plant," came to the same conclusion. In a memo to Warne, Drury noted that

I propose to proceed on the basis that this Service, after detailed boundary study to be undertaken with the advice of the Bureau of Mines, will recommend that a boundary revision be made to exclude the prospective limestone mining and cement activity from the park if the Department wishes to assist the proposal after it is finally found feasible, as it now seems likely to be.⁸⁷

In mid-December 1948, "the Secretariat, interested bureau heads and others" met and "concluded that the limestone-cement plant proposal ... would go ahead." Participants decided that the NPS "would draft legislation for revision of the park boundary to exclude the requisite limestone lands, such lands to go to the Alaska Railroad." A month later, Supt. Been stated that "there appears no urgency for precipitating a boundary revision" in the near future, and the agency's regional director, O. A. Tomlinson, noted "that we foresee a real danger in any elimination of park lands." The agency ultimately decided that a boundary revision was not a near-term priority.⁸⁸

In June 1949, Delegate Bartlett followed up on Gruening's move from October 1948 and introduced a bill in Congress that would enable the U.S. president to direct the construction of a cement plant in the territory and lease it on "such terms as he may deem proper." A House subcommittee held a hearing on the bill a month later, and Secretary Krug endorsed it; Krug, citing the fact that cement prices were four times as high in Fairbanks as they were in Seattle, supported federal financing and construction of such a plant in the public interest. Subcommittee members, however, were openly concerned about the lack of private capital for such a venture, and as result,



U.S. Interior Department personnel constructed a "tote road" to reach the limestone assessment site. Part of this road was located inside park boundaries. DENA 16-5, Denali National Park and Preserve Museum Collection

Bartlett was informed that his bill was being held over for a year.⁸⁹

In late 1949, a new player entered the fray: Permanente Cement Company, a subsidiary of Kaiser Industries, Inc. Recognizing the huge and continuing postwar demand for cement, the company announced its intention to build a bulk cement storage facility in Anchorage, which it would supply from one or more west coast ports via Victory ships. Despite a number of bureaucratic hurdles, Permanente officials persisted in their quest, and on July 14, 1950, it opened its Anchorage facility. Cement prices in Anchorage promptly declined by 25 percent.⁹⁰

Despite that welcome news, some federal officials continued to believe that the issue of a publicly supported Alaska-based cement plant merited further study. The Air Force, for example, concluded a May 1950 study by "strongly" recommending that the Interior Department investigate "the feasibility of producing cement economically in Alaska," and that September—two months after the storage facility opened-a Stateside consultant noted that territorial security and self-development would take place "only when Alaska obtains its own cement plant, based on local raw materials." Given those viewpoints, Bartlett reintroduced his bill in late May 1950. But by this time, the Bureau of Reclamation had completed a study which concluded that the cement plant was not economically feasible. James P. Davis, the director of the Division of Territories and Island Possessions, urged that Bartlett's bill should not be supported "unless and until present prospects of cheap cement fail." Perhaps as a result, the bill did not pass.91

During the summer of 1950, U.S. Geological Survey crews—who were in the midst of a planned five-year park geological study—spent the summer investigating a broad area between Windy Station and Foggy Pass; as part of their work, which included the construction of a "tote road to the face of the limestone cliff and across a portion thereof," they drilled limestone core samples along Windy Creek.92 The resulting cores "revealed the presence of deposits of limestone and shale that may be useful as the source of raw materials for cement manufacture."93 Shortly after the completion of the field season, Acting USGS Director Thomas B. Nolan met about the matter with NPS and BLM officials. Worried about an influx of speculative claims in an area that had not already been withdrawn, the government leaders concluded that "immediate withdrawal appears to be the only solution." In late November, the USGS and NPS directors issued a joint statement declaring their interest in withdrawing a large area "until such time as it is determined whether or not the Department or the Government wishes to take steps directed toward the establishment of a cement manufacturing plant." (The proposed withdrawal area was approximately 119,000 acres, some 66,000 of which were located within the park; see Map 7.) The joint proposal would revoke the previous (December 1948) public land order but withdraw the larger area "from all forms of appropriation under the public land laws ... and reserved ... for use in connection with the national defense." It was forwarded on to Interior Secretary Chap-



By September 1963, when this photo was taken, the 7-year-old landing strip on the West Fork of Windy Creek (which was adjacent to a potential limestone development area) had suffered considerable erosion. DENA 16-33, Denali National Park and Preserve Museum Collection

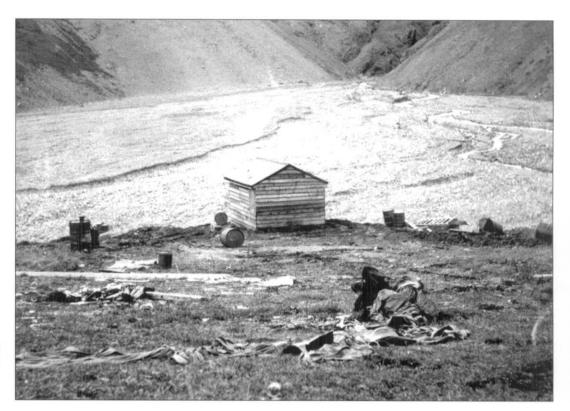
man, who signed the order on February 2, 1951. The order was implemented six days later.⁹⁴

Shortly after the withdrawal took effect, the Interior Department issued yet another contract95 to consultant Ivan Bloch, which was intended to assess the size of the Interior's present and future cement market. He asked his colleague, K. E. Hamblen, to determine the operating and capital costs for 250-ton-per-day cement plant in the Cantwell-Windy area. The reports, submitted in July 1951, concluded that cement produced at such a plant would cost anywhere from six to nine times as much as the Permanente cement available in Anchorage. Hamblen concluded that a cement plant was still necessary. But government officials—those with both the Truman and Eisenhower administrationsshowed no further interest in a subsidy, and the project appeared dead.96

Due to the language contained in the February 1951 public land order, interest in the park's limestone died away until the summer of 1956, when Park Service officials caught wind of furtive mining-related activity along Windy Creek. NPS officials received a report that a prospector had taken a "crawler tractor" into the West Fork of Windy Creek, so on July 23, a three-man party flew over the area and discovered "a short, narrow landing strip, some exploration digging, and staking," along with a damaged airplane and a

small tractor. A follow-up call to the U.S. Commissioner in Nenana revealed that Fairbanks resident Mark Ringstad had recently filed a claim in the area. Although the claim was legally staked according to BLM mining regulations, NPS officials were concerned because Ringstad had failed to register with park authorities according to the regulations that had been implemented in early 1949. They were also concerned because constructing an airstrip in the park violated NPS regulations. Two years later, Supt. Jacobs contacted Ringstad and suggested that he fill out the required registration form; the claimant showed no interest in doing so, however, and he made no immediate move to develop the site.⁹⁷

Two years later, Interior Secretary Fred A. Seaton signed a public land order that revoked the 119,000-acre withdrawal that had been implemented over the southeastern end of the park in February 1951. Perhaps, by the spring of 1958, the recent lack of interest in developing the area's limestone deposits may have moved federal officials to undo the seven-year-old withdrawal. But the more immediate reason for revoking the withdrawal was the July 1956 passage of the Alaska Mental Health Enabling Act.98 Section 201 of that act allowed the territory to select a million acres of "vacant, unappropriated, and unreserved" federal land. Inasmuch as approximately 53,000 acres within the withdrawal were outside the park boundary—and thus



In 1963, remains of the abandoned limestone claim on the West Fork of Windy Creek included this small frame building, bulldozer cuts, oil barrels, an eroding landing strip, and a "cat trail" connecting the claim to the railroad. DENA 16-37, Denali National Park and Preserve Museum Collection

potentially eligible for selection—the Interior Department agreed in late May 1958 to revoke the withdrawal. A clause within the revocation, however, applied to the park as well; it stated that on November 25, 1958 (which was 180 days after the public land order was approved), that the entire 119,000-acre area in the former withdrawal would be "open to location under the United States mining laws." In response to the order, several parties showed a new or renewed interest in the area's limestone possibilities; that same day, the Alaska Limestone Corporation "restaked its limestone lode mining claims located in the Foggy Pass Area," and soon afterward, two parties announced their intention to erect a cabin on their claim. But judging by a September 1959 NPS site visit, neither party built a cabin that year.99

In early 1960, the Alaska Limestone Corporation representatives staked several additional claims on "Upper Windy Creek" and obtained the required prospector's permit. Company official O. E. Loring, Jr. also requested permission to land aircraft on the property; when told that such an activity was illegal, he declared his intention to appeal that decision to a "higher authority."100 In mid-June, a ranger on patrol was surprised to discover that "an airstrip some 1000 feet in length had been constructed on a gravel bar near the head of the canyon." Soon afterward, Loring "readily admitted that he had constructed it on advice from his legal counsel." An Interior Department attorney, Rita Singer, stated that "it is my opinion that the company would have

a right to put in its own airstrip since it is very likely that there are no roads making the area accessible otherwise." Soon afterward, the Alaska Limestone Corporation sold its claims to a California corporation called Alaska Portland Cement, Ltd., and that October the new company announced that it was "now at work on ... feasibility studies" for a cement production plant, the site of which would be "somewhere in the Railbelt section." Those plans did not pan out, however, and the company's plans were quietly shelved – at least for the time being.

Three years later, in July 1963, Alaska Portland Cement executives announced a new cementplant proposal. Citing a recently-completed market analysis that showed continuing high demand for cement, the company revealed plans to build a 500,000-barrel-per-year cement plant along the Jack River near Cantwell. Limestone to supply the plant would come from a quarry located at the company's claims on the West Fork of Windy Creek, near Foggy Pass; the quarry and plant would be connected by an industrial road. Officials announced that construction on the plant would begin the following spring and would be completed in 1965.103 The State of Alaska strongly supported the proposal and offered the company a tax break; conservationists, however, felt that the planned project was "highly objectionable" because quarrying operations would be taking place within the national park.104 The proposal remained a major discussion topic, both in Alaska newspapers and among NPS officials, for months afterward. But

plant construction, promised for the spring of 1964, did not take place, and in late June, the company announced that the Cantwell area was no longer being considered as a cement-plant location.¹⁰⁵

After that time, no serious proposals arose to either develop the park's limestone deposits or construct a nearby cement plant, and by 1975, the West Fork claim area was marked by a series of bulldozer cuts, oil barrels, an old sledge, a 10' x 14' frame building, piles of nearby refuse, an eroding airstrip, and a "cat trail" connecting the claim to the railroad. 106 The area was closed to mining in 1976 (see below), and since then further deterioration has set in.

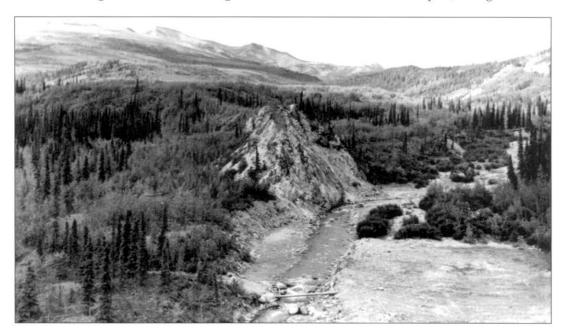
Attempts to Mine Building Stone in the Park On August 2, 1952, S. Robert Corey from the Great Northern Stone Corporation, based in Anchorage, staked a standard 1,320-foot x 660foot mining claim on a bench just south of Hines Creek just upstream from the Riley Creek confluence, about one-half mile south of the park hotel. (The northern edge of this claim was part of the old Morino homestead, which the NPS had acquired in October 1947; the remainder was NPS land that had never been in private hands.) Approached by park superintendent Grant Pearson, Corey and a co-worker willingly filled out the paperwork to obtain a prospector's permit. Soon afterward, they started in to work, and by day's end they had obtained about 150 pounds of building-stone samples. As Pearson noted, "they said the stone was ideal for fireplace facing and rock veneer work and there was a market for this type of rock."107

Pearson, hoping to prevent an expansion of this or similar mining activities, first asked regional

officials, "Can this company mine this stone? If not, what steps should we take to prevent it?" Before he got an answer, however, the claimants returned and began their "mining operations." Via a telephone call, therefore, Pearson was advised "to stop operations on Morino property since this area was purchased for the expansion of public use facilities for the park," although he was also advised "to allow continuation of mining operations on remainder of claim pending further advice" from Washington. Pearson, in response, visited the site but was unable to find any of the old Morino homestead's corner posts; indeed, he was unsure that there was any overlap between the old homestead and the stone company's claim. He was therefore powerless, in the short term, to halt the company's excavations.108

At this point, NPS Director Conrad Wirth swung into action. Citing a recently-issued regulation that authorized Interior Department agencies to "withdraw or reserve lands of the public domain ... for public purposes," he urged agency officials—as a way to prevent the staking of additional claims—to visit the BLM's Alaska office "for withdrawal of all land covered by [the] mining claim from all forms of disposal under public land laws, including mining and mineral leasing laws. ... Meanwhile, you should also communicate with Alaska regional administrator for BLM to ascertain whether basis exists for declaring portion of claim located on public [i.e., non-Morino] land to be invalid." 100

Officials in the NPS's regional office responded to the first part of Wirth's telegram by sending a proposal, on August 20, to the Fairbanks BLM office to withdraw approximately 10,900 acres of land at the east end of the park, noting that the



This rock outcrop, which is just upstream from the confluence of Hines Creek (seen here) and Riley Creek, was the location of a claim to mine building stone in 1952. DENA 16-25, Denali National Park and Preserve Museum Collection

lands were "essential ... as an administrative site and for public use." This irregularly-shaped area began three miles southeast of the park hotel and extended to Mile 5 of the park road, two miles west of park headquarters. Along that corridor, the withdrawal reached from one to three miles out from the park road.¹¹⁰

Meanwhile, agency staff was well aware that the proposed withdrawal had no effect on the stone company's existing claim, but they were reasonably sure that lands within the old Morino tract were not subject to entry under the mining laws. So they did their best to answer the other half of Wirth's telegram; that is, to ascertain the legality of the portion of the company's mining claim that was located south of the Morino tract. To that end, the regional director peppered the park staff with questions about the corporation and its activities at the park, and in response, he learned that excavations had taken place on a 200-foot x 50-foot portion of the claim and that only one flatcar of stone had been removed thus far. As to the purpose for the stone excavation, park officials—admitting it was hearsay—learned that the stone company had contracted with the Alaska Railroad to supply materials for a commemorative stone monument, near the Anchorage depot, upon which would be placed "Old No. 1," which was "presumably" the railroad's original steam engine. Park officials could find little other information that could shed light on the propriety of the corporation's activities.111

Corporation officials, confident that no bureaucratic roadblocks stood in their way, visited with park staff on September 9. Given the fact that an unimproved road reached to within a few hundred feet of where stone removal was to take place, they informed agency representatives that beginning on September 10, they planned to extend that road to the proposed excavation site. But on September II, NPS officials made a startling discovery: that all land on the stone company's claim located south of the Morino tract was encompassed by either Executive Order 3617 or Executive Order 3800, which President Harding signed in January 1922 and March 1923, respectively (see Chapter 3). Both of those executive orders had withdrawn land "for use in connection with the administration of the Mount McKinley National Park," and both included a clause that withdrew the land "from settlement, location, sale, or entry." The orders made no specific mention of mineral entry; the Congressional acts that authorized the orders, however, stated that while metalliferous mining was sanctioned, non-metalliferous mining (such as building stone) was not.112 Given that discovery, NPS officials ordered a halt to all

mining operations and also decided to deny the company's road-construction permit. Company officials obediently stopped their excavation work. Regarding road improvements, however, the damage had already been done.¹¹³

Canvassing about for alternative sites for their building stone, company officials visited the park headquarters on September 12 and obtained a new prospector's permit, this one for the Sable Pass area. Frank Hirst, on the park staff, immediately sent word of the new development to regional officials in San Francisco. Park superintendent Grant Pearson, at the time, was working at the regional office and noted that several other persons had also been investigating the park for building stone. NPS officials, recognizing that any company obtaining a legitimate buildingstone claim along the park road might use it for purposes other than the railroad's locomotivemonument contract, moved on September 16 to protect the entire road corridor from potential mineral incursions. More specifically, officials proposed a 70,150-acre withdrawal that covered all of the park road that had not been subject to the August 20 withdrawal proposal. The new proposal, if implemented, would withdraw all land within one-half mile of the park road. The area covered by the proposed withdrawal would broaden to one mile from the road in the vicinity of the park's various campgrounds, and at the west end of the park road, the proposal called for a 3.8-mile by 5.5-mile rectangle to be withdrawn that would include Wonder Lake and surrounding territory.114

During the winter of 1952-53, the NPS and stonecorporation officials carried on a spirited correspondence about the legality of the Hines Creek claim. Despite the apparent finality of the NPS's September II decision, the company's attorney in October 1952 argued that the claim was valid and that "client will continue to retain possession of the claim and its use." Again, the following April, attorneys sought clarification.115 NPS officials, for their part, hoped that the Fairbanks BLM office could help; that agency, however, took no action in the matter because it did "not notify claimants of the invalidity of their mining claims until a field investigation has been made and adverse proceedings initiated to declare the claims null and void."116

Both park and regional officials sought Washington's assistance for a legal means to invalidate the company's claim, and they also vented their frustration at the lack of action regarding the two road-corridor withdrawal proposals that had been advanced in August and September 1952.¹⁷ The NPS, however, was stymied

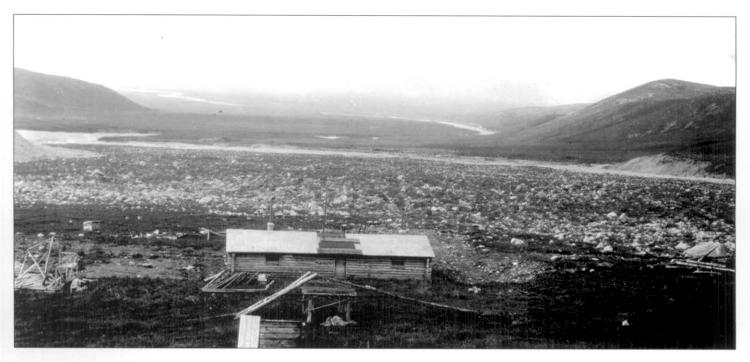
on both counts. Regarding the existing claim, NPS Director Wirth could only state that the agency "should withhold immediate action" on the matter "pending further developments." A regional official, in turn, told Supt. Pearson that "you should inform Mr. Arnell [the company attorney] that the National Park Service still considers the Great Northern Stone Corporation mining claim filed by Mr. Corey to be invalid but that pending further instructions from our Washington Office you will not interfere with work on the claim." And regarding the two withdrawals, the issuance of a public land order implementing those withdrawals demanded the Interior Secretary's approval, something that had not been granted by either outgoing secretary Oscar Chapman or incoming secretary Douglas McKay. The secretaries' lack of action in the matter may have been caused by a solicitor's opinion as it pertained to Death Valley National Monument, another park unit where mining was permitted. That opinion, expressed in 1942, noted that "No attempt to reserve [certain] lands ... from the operation of the mining laws, short of their elimination from the national monument, could be effective since it would conflict with the express congressional mandate in the statute."18 On that basis, it appeared that nothing short of congressional action would prohibit the broad application of the mining laws in Mount McKinley National Park.

Given the NPS's failure to prevent further activity on the stone company's mining claim, and the Interior Department's failure to issue a withdrawal over the road corridor, the park remained open to those interested in searching for, and developing, sites where economically-viable quantities of building stone were located. During the summer of both 1953 and 1954, for example, Corey continued to extract building stone from his Hines Creek claim (he removed at least three railroad cars of stone during this period). To gain additional materials, he created a new company—the Wonder Lake Building Stone Company—and filed on a new site at the north end of Wonder Lake in August 1953. By June 1955 the company was "now hauling rock from the Wonder Lake claim."

The law, however, caught up with Corey that same month. U.S. Attorney Theodore F. (Ted) Stevens, in Fairbanks, filed a temporary restraining order against Corey and other company representatives, and soon afterward two deputy U.S. marshals and a federal treasury agent arrived at the park and served Corey with the order. Corey immediately stopped his operations. The company apparently filed an appeal against the court, asserting that it was now seeking antimony (in order to sidestep the prohibition against nonmetalliferous materials), but in mid-March 1957 the company's attorney gave up the fight, stating "that they would agree to have judgment entered against them" and "a permanent injunction issued against any further claim or work." A month later, a Fairbanks judge ordered stone company representatives "not to reenter Mount McKinley National Park for the purpose of making nonmetalliferous locations and mining claims in order to remove sandstone or other nonmetalliferous substances."120



The Wonder Lake Building Stone Company had an active claim in this area at the north end of Wonder Lake from August 1953 to March 1957, when an injunction prohibited any further work. DENA 16-16, Denali National Park and Preserve Museum Collection



It is believed that Earl Dunkle and his mining partners cut timber north of the park boundary and constructed this three-room log cabin on Slippery Creek in 1937. It provided housing for the people working at the lode mine just south of the cabin. DENA 16-2, Denali National Park and Preserve Museum Collection

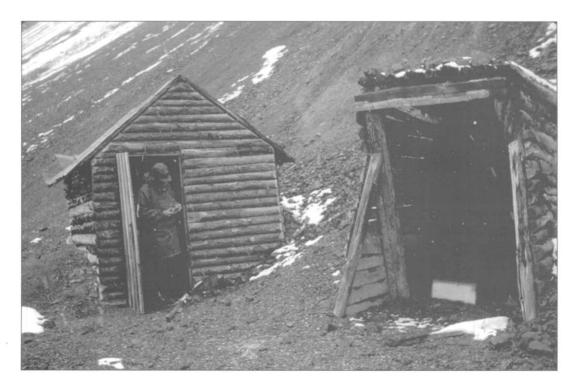
By the time the judge made his decision against the Great Northern Stone Corporation, the longanticipated Denali Highway was nearly complete. As noted above, the ongoing road construction had brought forth a revival of interest in the park by prospectors and miners. To ensure greater protection of the road corridor, Superintendent Duane Jacobs requested the issuance of a public land order that would preclude mining and prospecting within 1.5 miles of the park road. With no remaining legal hurdles in the way, the Interior Department soon afterward issued a proposal to withdraw the same two road-corridor parcels that had first been proposed almost five years earlier.121 In late June 1958, the proposal was implemented when the Interior Secretary's office issued a public land order reserving 81,050 acres along the park road corridor for "administrative sites and the protection and preservation of scenic and recreational areas." To accomplish those purposes the acreage was "withdrawn from all forms of appropriation under the public-land laws, including the mining laws."122

Congress Moves to Eliminate Mineral Entry in the Park

Between the 1950s and the mid-1960s, prospecting and mining in Mount McKinley National Park were fairly insignificant activities. The number of new mining claims during this period fluctuated wildly; in 1958, for example, III claims were recorded (primarily in the Windy Creek area), but in many other years no claims were recorded. Similarly the number of annual assessment reports filed for claims in the park during the early- and mid-1960s typically ranged from 15 to 30, although during the 1950s many years passed in which no assessment reports were

filed. Throughout this period, no claims were patented and the only minerals shipped from the park were occasional extractions, by a stone company, along the park road corridor. (In addition, park-road construction and maintenance crews also conducted gravel extraction.) NPS officials, however, became increasingly uneasy about the legality of park mining, and they were particularly concerned about the visual impacts of mining on the viewscape in the Eielson Visitor Center area.¹²³

In the late 1960s, high prices for mercury caused local miner Arley Taylor to re-stake Wes Dunkle's old mine along Slippery Creek. Then, in early September 1969, Taylor and another miner, Dan Ashbrook, "walked a pair of cats [Caterpillar tractors] towing sledges" from the Wonder Lake area to the mine via the Muddy River and overland to upper Slippery Creek. The pair's action was illegal, inasmuch as the NPS had asked Taylor to proceed westward along the park's northern boundary to the Slippery Creek drainage before heading south to the mine. Because they failed to follow the agency's recommendations, the 25-mile-long strip of "disturbed tundra vegetation and soil" provoked considerable ire, both among park staff and the small but dedicated number of conservationists concerned about park-area issues. That ire increased in 1970, when crews made a second "cat train" trip to the mine, cleared off the old airstrip, and engaged in illegal timber cutting. Activists recognized that the development of the Mount McKinley Mercury Mining, Inc. claimswhich were "actively being explored" in 1970 for their antimony potential but were not yet being commercially developed—brought ecological



The small log shop and abandoned mercury mine shaft at the Slippery Creek claim, photographed above in 1965, were on the east side of "Mineral Mountain." This area was active during the 1920s and 1930s. Later mineral interest was focused on the west side of the mountain. Wayne Merry Collection, Denali National Park and Preserve Museum Collection

destruction and visual scarring to one of the most remote parts of the park. The peak south of the camp soon became known, informally, as Mineral Mountain.¹²⁴

Recognizing that several prospectors had "disregarded the regulations, have not registered, and have independently entered the park creating scars and leaving refuse behind," agency staff prepared a document examining prospecting and mining issues both at Mount McKinley and Glacier Bay. That document stated that 310 mining claims had been filed at Mount McKinley National Park between 1917 and 1970; most of these were "the same mineral locations, top filed over and over again, after abandonment by the previous claimant." Only 93 claims were considered presently valid: 44 in the Slippery Creek area, 35 in the area north of Mount Eielson, and 14 along Windy Creek. These claims were held by just two companies and four individuals. The agency declared that mining in the park, and in other park units as well, was "socially uneconomic, however profitable it may be for individual operators." In order to halt future mining-related abuses, a necessary first step would be to stop new prospecting and mining, and that "to prevent actual development would require timely purchase of the rights by the government."125

Given the national growth of the environmental movement during the 1960s—a movement that often spotlighted Alaska issues—some voices began to recognize that the problem at Slippery Creek was symptomatic of a broad problem that needed to be addressed at the legislative level. In

June 1970, the Public Land Law Review Commission published the landmark study One Third of the Nation's Land. That document recommended, on a general level, that "all nonconforming uses in national parks ... should be prohibited by statute;" more specifically, however, it recommended that provisions for mining in Mount McKinley National Park should be repealed. 126 Early the following year, the Fairbanks Group of the Sierra Club's Alaska Chapter made a similar decision; it prepared a formal proposal and sounded out the views of Alaska's congressional delegation on the subject. The legislators offered little support, however, so the idea languished for the time being. Conservationists who contacted NPS officials about the park's mining laws were assured that the agency was "opposed to mining and prospecting in the natural areas of the National Park System and trust that Congressional action to eliminate this incompatible use will be forthcoming in the future." Presently, however, "mining and prospecting are still practiced in some areas," and individuals still had the right to file mineral claims.127

In December 1971, Congress passed the Alaska Native Claims Settlement Act, and as noted in Chapter 8, the inclusion of Section 17(d)(2) in that act set off a mad scramble among government land-management agencies over the fate of previously-undesignated federal lands. The NPS and other agencies hurriedly organized teams that fanned out over lands that were being considered for new conservation units, and before long these teams began to assemble various master plans and environmental statements for the proposed units. These teams, among other



The two Caterpillar tractors that were driven from Wonder Lake to Slippery Creek mine in 1969 are pictured here at the Slippery Creek cabin in 2007. This equipment was utilized for production at the antimony mine at least through the 1975 season. NPS

issues, needed to make decisions about mining in these areas. But as it pertained to Mount McKinley, that option was already decided early in the process; in March 1972, Assistant Interior Secretary Nathaniel Reed recommended that the existing park, along with Glacier Bay National Monument, should be withdrawn from the operation of the mining laws. The Alaska Planning Group, which was tasked to write various environmental documents pertaining to an expansion of Mount McKinley National Park, reiterated Reed's statement in the park's December 1973 master plan. It declared that "proposed legislation would close the entire enlarged park to mining" although "existing valid claims, carefully monitored and in accordance with regulations, will be permitted until each claim has been acquired or abandoned." The APG's Final Environmental Statement, released in October 1974, arrived at the same conclusion.128

Congress, during this period, had not yet moved toward a legislative solution to the Alaska lands issue. Although Sen. Barry Goldwater and Rep. Morris Udall introduced bills (in July 1973) calling for the cessation of new mining entry throughout the National Park System, no action took place on either bill during the 94th Congress.129 Instead, Congress focused on regulating the country's strip mines, an interest that resulted in the December 1974 passage of the Surface Mining Control and Reclamation Act, which did not become law because of President Ford's pocket veto. Congress passed a similar bill in May 1975, which Ford also vetoed; legislators tried to override the veto but were unable to do so.130 Throughout this period, mining issues at Mount McKinley National Park remained active; in 1975, Interior Department officials stated

that at Slippery Creek, mining operations were commercially viable and were producing "approximately 100 tons of antimony ore per year, at a gross value of \$60,000." (A 1976 report by the park's resource management specialist lent corroboration to that claim, noting that the company had flown out bags of stibnite ore in both 1974 and 1975.) Rep. Don Young (R-Alaska), however, disputed these figures at a House subcommittee hearing, maintaining that "there is no mining now in McKinley Park."¹³¹

During the summer of 1975, however, new concerns arose when Congress learned about mining proposals within two different national park units. That September, worried that "there will soon be widespread strip mining in the Death Valley National Monument" and that "Glacier Bay National Monument in Alaska is also threatened by imminent mining," Rep. John Seiberling (D-Ohio) introduced a bill to "prohibit any mining in any areas of the National Park System." Two weeks later, Sen. Lee Metcalf (D-Mont.) introduced a similar bill; it was more protective than its House counterpart, however, because it proposed to ban all mining, for a three-year period, within the six NPS units that still sanctioned mining. Both bills called for the elimination of Section 4 in the 1917 bill that established Mount McKinley National Park; that section stated that "Nothing in this act shall in any way modify or affect the mineral land laws now applicable to the lands in the said park." And, as a housekeeping measure, the bills also called for the elimination of Section 2 of the Surface Use Act of January 26, 1931, which gave the Interior Secretary the authority to regulate mining activity within the park. The champions of these bills recognized that at Mount McKinley and three other park units, there was "no present likelihood of mining, as there are no known economically recoverable mineral deposits." These four units were included, however, to prevent the possibility of developments that were then looming at Death Valley and Glacier Bay national monuments.¹³²

Rep. Seiberling's bill was considered in a National Parks and Recreation Subcommittee hearing on October 6. Assistant Secretary Reed, in attendance at the hearing, noted that "currently the only production ... from the park consists of approximately 100 tons of antimony ore per year" despite there being approximately 300 unpatented claims and mill sites in the park. The park's only working mine, located on one of fifteen Slippery Creek claims, was small in scale, grossing only about \$60,000 per year. 133

Just one day later, Sen. Metcalf held an Interior and Insular Affairs Committee hearing on the bill. Many who attended offered their full support for the bill, but Sen. Ted Stevens (R-Alaska) had mixed views. As he later noted to a constituent, he felt that the park "should be withdrawn from further mining entry." But he was opposed to Section 3 of the bill (which proposed a threeyear park mining ban) because it "would constitute a taking of private property rights." He felt that "the matter of prohibiting and/or acquiring the valid existing claims in McKinley Park be left for resolution when Congress considers the D-2 proposals to expand the boundaries of the Park." Both Stevens and Sen. Gravel (D-Alaska) asked Metcalf to exclude Alaska areas entirely so that Alaska-specific provisions would be considered during the upcoming D-2 battle. Metcalf, however, showed little inclination to do so, and the bill that passed the Interior Committee in

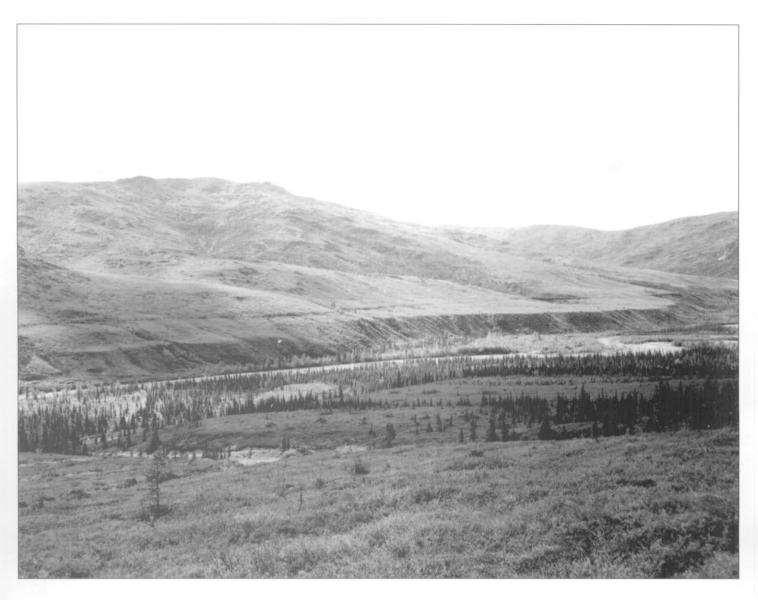
December—and the full Senate the following February—banned future mineral entry at both Mount McKinley and Glacier Bay.¹³⁴ But the bill then got bogged down in the House over how to proceed with Death Valley's talc and borax operations, and it did not clear the House Interior and Insular Affairs Committee until August 1976. The bill passed the House on September 14, the Senate agreed to the House's amendments on September 17, and President Ford signed the bill on September 28.¹³⁵

The new legislation, called the Mining in the Parks Act of 1976, stopped all new mineral entry into Mount McKinley National Park and in the other five NPS units noted above, and it also imposed a four-year moratorium on further surface disturbance at Mount McKinley and two of the above-named parks. And at Mount McKinley and three other park units, the act called on the Interior Secretary, by September 1978, to submit a study of the validity of the parks' mining claims. Based on that decision, the study would then recommend whether the government planned to buy them back.¹³⁶

Valid mining claims, however, were a fixture in a total of eighteen NPS units, so to manage mining claims within these units, the Mining in the Parks Act subjected all activities resulting from the exercise of valid existing mineral rights to regulations prescribed by the Secretary of the Interior. Claimants, moreover, had to record existing claims with the Interior Secretary within a year: that is, by September 28, 1977. If they did not do so, their right to those claims would be forfeited. The act also addressed the concerns of Senator Stevens and others, in two ways. First, it stated that anyone who held patented or unpatented mining claims, and felt



Eureka (later renamed Kantishna), shown here in 1919, continued to be a settlement of scattered cabins, a central mining camp for the creeks nearby. Stephen Foster Collection, 69-92-594, University of Alaska Fairbanks Archive



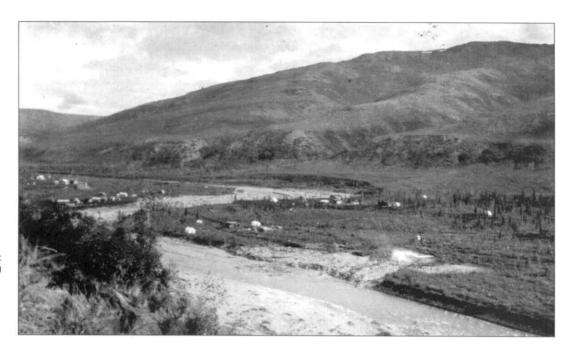
In the early 1920s the Kantishna Hydraulic Mining Company spent two years building a dam at the outlet of Wonder Lake (outside park boundaries until 1932), and two and one-half miles of ditch to carry water to their hydraulic operation on Moose Creek, near the mouth of Eureka Creek. The remains of that water diversion system are visible today along the hillside above Moose Creek. Bradford Washburn, #5998, Denali National Park and Preserve Museum Collection

that they had suffered a loss because of the act's provisions, could institute a lawsuit "to recover just compensation." The act also recognized that people who held claims in park units subject to the four-year moratorium (such as Mount McKinley) might have a difficult time selling them; given that fact, the act tried to ease the way to sell those claims if continued private ownership resulted in undue hardship.¹³⁸

Key to the act's implementation was the issuance of follow-up regulations. To that end, the Interior Department hurriedly prepared interim regulations that went into effect on November II, just six weeks after the act's passage. Comprehensive regulations were published in January 1977.¹³⁹ As NPS Director Gary Everhardt noted when the second set of regulations was issued, "the new regulations enforce a much stricter approach to environmental conservation and reclamation on the park of mining companies operating in the National Park System." In order to control miners' access and land surface use and disturbance, the regulations focused on the issu-

ance of permits that would be granted only after a mining plan of operations had been approved. Miners who hoped to have their plans of operations considered for approval, moreover, had to submit them to the NPS by May 26, 1977.¹⁴⁰

Meanwhile, the Interior Department-following procedures laid out in regulations that were issued in the wake of the Mining in the Parks Act—proceeded to inventory the park's mineral resources. It did so on two levels. First, the Bureau of Mines tendered a contract to mining consultant Chuck Hawley on mining prospects throughout the park; that report was written during the winter of 1976-77 and identified a number of promising ore-bearing areas, particularly in the park's remote southwestern corner.141 On a more specific level, those with mining interests in the park responded to the September 1977 deadline by filing for 74 claims. Congress, in accordance with Section 6 of the act, also set a September 1978 deadline for the agency to complete validity determinations for those claims. If the NPS field investigators felt that any claims



The first large-scale hydraulic operation on Moose Creek was conducted by the Kantishna Hydraulic Mining Company. This photo, looking upstream, was taken on July 10, 1922. Steel pipe brought water from the ditch to the hydraulic mining site (in foreground, on far side of Moose Creek). P.S. Smith, 1404, U.S. Geological Survey

were economically unjustified, they would ask the BLM to issue a complaint contesting the claim.¹⁴²

NPS geologists, as a result, examined each of the outstanding mining claims during the 1978 field season. They then completed a study, issued in early October 1978, which concluded that, in their opinion, all 74 claims in the park were invalid. (In the technical language of mining regulation, the investigators concluded that "there are not presently disclosed within the boundaries of the mining claims minerals of a variety subject to the mining laws, sufficient in quantity, quality, and value to constitute a discovery.") As a result, the NPS made no plans to either buy out the existing claimants or alter boundaries to conform to active mining areas. Instead, the Bureau of Land Management moved to contest each claim. It filed complaints against the various claim holders in the spring of 1979.143

The Interior Department, anticipating that most if not all of the claimants would dispute the validity determinations, announced that it would hold hearings on the claims in 1979. Those who chose to dispute their claims included Arley Taylor and Wayne Copley, who had 12 claims at Slippery Creek and Birch Creek; the Mount McKinley Mercury Mining Company, with 11 claims at Slippery Creek; Harold Herning, whose family had 13 claims at Copper Mountain; and the Alaska Limestone Corporation, which had 14 claims along Windy Creek. These disputes were adjudicated by the Interior Department's Office of Hearings and Appeals.

Taylor, Copley, and the Mount McKinley Mercury Mining Company argued their case before

administrative law judge E. Kendall Clarke in May 1980, and again in December 1980. In January 1981, an Interior Department solicitor wrote a post-hearing brief which concluded that "because there is not sufficient mineralization [at the claims] to warrant a prudent man to further invest his time and effort and money with the prospect of a valuable mine ... the contestees have failed to prove ... that any of the contested claims are valid." Clarke apparently agreed with that rationale and, on December 15, 1981, he declared that all 23 claims were null and void. Taylor and Copley's attorneys appealed the decision, but given no follow-up evidence to justify the appeal, the appeal was dismissed on April 28, 1982.146

The case against the 13 Herning claims took a similar course. In September 1977, Herning's attorney submitted the proper paperwork in response to the Mining in the Parks Act. The following year, however, a NPS geologist and an NPS mining engineer made several visits, and based on their investigations, the BLM, acting on the NPS's behalf, filed an April 1979 complaint that there were "not minerals ... sufficient in quantity, quality and value to constitute a discovery." Discussions, at first, hinged upon whether Herning had filed the appropriate paperwork in satisfaction of Federal Land Policy and Management Act provisions, and based on the results of a Fairbanks hearing, administrative law judge E. Kendall Clarke, in March 1980, declared the claims null and void. But Herning's attorney appealed the case, and in June 1982 a new hearing, also in Fairbanks, attempted to resolve whether the claims held sufficient minerals to constitute a discovery. On June 9, 1983, administrative law judge L. K. Luoma concluded that "the



After the Herning mining claims were declared invalid, Harold Herning's cabin has remained at the site, serving to remind us of the historic mining activities that took place from 1921 through the 1970s on Mt. Eielson. The cabin exhibits the effects of weathering from the time it was built in 1954 to 2003, when this photo was taken. NPS Photo

evidence presented by [Herning] falls far short of overcoming [the government's] case," and he declared all 13 claims invalid. Herning did not appeal, and the case was closed. 147

The Alaska Limestone Corporation (ALC), with its Windy Creek interests, held out longer than the others. Company representatives claimed that the limestone deposits on their 280-acre claims were worth \$100 million and that their site improvements (including an airstrip, roads, a cabin, etc.) were worth about \$1 million. Convinced that their claims were still marketable, they claimed that the BLM report, which concluded otherwise, was a "hatchet job." Declaring that the Mining in the Parks Act (with its four-year moratorium on substantial new mining exploration and development) prevented the company from "making entry upon its property," ALC attorneys filed two lawsuits in U.S. District Court in the matter, both of which were dismissed by Judge James Fitzgerald. Corporation attorneys, undaunted, then pursued their claims before administrative law judge E. Kendall Clarke, who heard their case in May 1980. In 1981, he declared the claims null and void; company officials appealed the decision, only to have the judge rule again in the government's favor in late August 1982. ALC officials and their attorney, Edgar Paul Boyko, then appealed the decision to the U.S. District Court, but in April 1985, Judge Fitzgerald again ruled against the company. The ALC then appealed Fitzgerald's ruling, but in September 1986 its appeal was denied.148

Deliberations Over Mining in the New Park Units

As noted in Chapter 8, the nine-year period between 1971 and 1980 was dominated by the process—advanced first by executive agencies, and later by Congress-that resulted in a substantial expansion of Mount McKinley National Park's boundaries and the establishment of Denali National Park and Preserve. The fate of the so-called "national interest lands" was fought throughout the State of Alaska. In the areas surrounding Mount McKinley National Park, however, efforts to expand the boundaries had begun much earlier (see Chapter 7): a 1968 master plan study had proposed the inclusion of most of the Kantishna Hills as well as the Dunkle Mine area, although the 1970 proposal that Interior Secretary Walter Hickel had approved ignored both areas. President Nixon's December 1971 signing of the Alaska Native Claims Settlement Act brought on a flurry of new park proposals, and all of those advanced by the NPS or the Alaska Planning Group (APG) included both the Kantishna Hills and Dunkle Mine within its boundaries.

Major questions remained, however, regarding how mining would be managed in the areas proposed for the park expansion. As noted above, APG officials concluded in December 1973, and again in October 1974, that any new areas included in the park would be closed to new mineral entry and development. 49 Other entities gave different recommendations, however. By July 1973, the Joint Federal-State



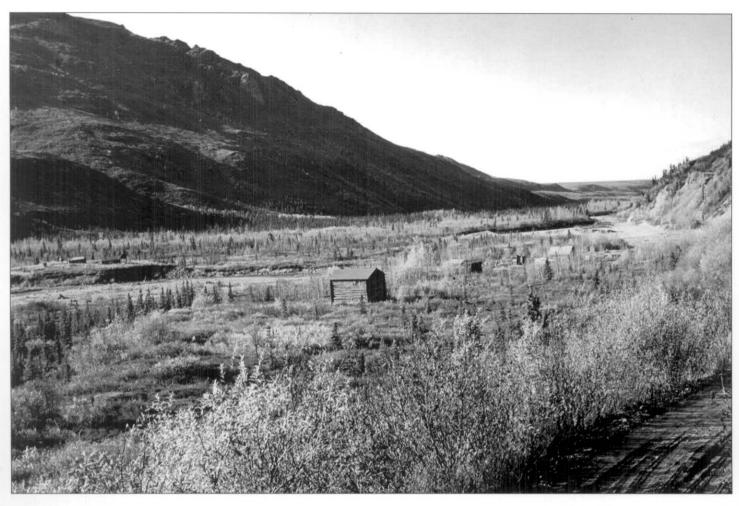
By 1937, when the Alaska Road Commission took this photograph, the park road had neared Kantishna, providing the long-awaited road access from the mining district to the Alaska Railroad. The historic Kantishna Roadhouse is the two-story structure centered in the photo. Alaska Road Commission Collection, 61-18-102. Alaska State Library

Land Use Planning Commission had concluded that all of the proposed additions south of the existing park should be open to new mining; north of the park, mining should be sanctioned in the Kantishna Hills and adjacent areas to the north and east but prohibited to the west. Mining advocates, predictably, argued that the various APG proposals would needlessly lock up Alaska's mineral wealth. One state legislator, Rep. "Red" Swanson of Nenana, was so irked at the APG proposals that he introduced a bill calling for a Kantishna State Recreation Area, which "recogniz[ed] the value to the people of the state of the existing mineral industry in the area," and Alaska mining industry representatives prepared a statewide "Alaska Resource Preservation" bill that proposed only small additions to the National Park System.150

As noted in Chapter 8, conservationists, developers, and a host of other interests wrestled with the Alaska lands question in Congress between 1977 and 1980. Rep. Morris Udall's initial bill, introduced in January 1977, stated that all of the new or expanded NPS units would be "withdrawn, subject to valid existing rights, from all forms of appropriation under the mining laws and from operation of the mineral leasing laws."

Almost six months later, however, Sen. Ted Stevens (R-Alaska) introduced a more development-friendly "consensus bill" that called for a relatively small amount of parkland (where new mining would be prohibited), but a much larger acreage would be allotted to "Federal Cooperative Lands" which would be administered by the newly-created Alaska Land Classification Commission and would "be open to all uses authorized under the public land laws except disposal."151 In August 1977, NPS Director William Whalen recommended the continuation of all valid existing rights for miners, but he opposed any new mineral exploration, location, and leasing. A month later, Interior Secretary Cecil Andrus, in a similar vein, noted that "national parks, monuments and wild rivers established by this legislation will be withdrawn from all mineral exploration, entry, or leasing, subject to valid existing rights."152

As Udall's bill wound its way through the committee process and onto the House floor, new features were added. By the time the bill passed the House, in mid-May 1978, it had several mining-related features. First, it stated that "all public lands within the boundaries of any conservation system unit in Alaska are withdrawn



By the time this photograph was taken in 1956, only a handful of permanent residents lived in the Kantishna area. Abandoned cabins were often "recycled" for new construction or firewood in this area where timber was hard to get. The two-story Kantishna Roadhouse, center, and the Busia cabin, left, are still standing in 2008. Charlie Ott Photo, Denali National Park and Preserve Museum Collection

from all forms of entry or appropriation under the mining laws of the United States." Second, it stated that the Interior Department would "continue mineral assessment programs ... in order to expand the data base with respect to the mineral potential of all public lands in Alaska." And finally, the procedures for the assessment program had to be transmitted to Congress by October 1981.153 The Senate Energy and Natural Resources Committee, using the House bill as a template, produced an October 1978 committee report that, to some extent, duplicated the House's efforts as they pertained to mining regulation. The Senate's bill, however, was more strict in that it prohibited core-sampling and other on-the-ground mineral assessment procedures. In addition, senators-particularly Senator Stevens—recognized the special qualities of both the Kantishna Hills and Dunkle Mine areas by asking the Alaska Land Use Council (which would have been created by this bill) to collaborate with the Interior Department on a study of these areas that would evaluate the area's resources and "may include recommendations with respect to such resources as the Council may determine."154 Both the Senate committee bill and the House bill died, however, because the 95th Congress adjourned without passing an Alaska lands bill.

In January 1979, the new Congress made a renewed attempt to pass a comprehensive lands bill. Once again, Rep. Udall introduced a conservation-oriented bill, which in its mining provisions was similar to the May 1978 House bill but omitted the three-year deadline for the mining program's assessment procedures to be announced. This language stayed largely unchanged in the bill that the full House passed in May 1979. The Senate, however, responded by re-introducing the same bill that had emerged from the Energy Committee the previous October. 155 Discussions by the full Senate did not begin until mid-July 1980. What emerged from those discussions was a bill that the Senate passed in mid-August and, for reasons discussed in Chapter 8, was signed into law by President Carter on December 2.156

The so-called Alaska National Interest Lands Conservation Act contained several mining-related provisions, most of which pertained to all new or expanded NPS areas. Section 206, for example, stated that "[s]ubject to existing rights ..., the Federal lands within units of the National Park System established or expanded by or pursuant to this Act are hereby withdrawn from ... location, entry, and patent under the United States mining laws [and] disposition



This aerial overview of Kantishna and Moose Creek, with Eldorado Creek on the left and Eureka Creek on the right, shows the large-scale placer mining on patented claims along Moose Creek in 1983. NPS Photo

under the mineral leasing laws." Section 1110(b) guaranteed "adequate and feasible access" to those with "privately owned land, including subsurface rights of such owners underlying public lands, or a valid mining claim...". Section 1010(a) stated that for all public lands in Alaska, the Interior Secretary would conduct a mineral assessment program "in order to expand the data base with respect to the mineral potential of such lands." This program provided for aerial reconnaissance over all public lands; core samples and test drilling would also be conducted on most public lands, but not within the areas added to the National Park System. Finally, Section 1011 called on executive agencies, once each year, to share their newly-discovered mining assessment information with Congress.157

The single ANILCA provision unique to newly-expanded portions of Denali National Park was Section 202(3)(b). This section stated that the Alaska Land Use Council would collaborate with the Interior Secretary on "a study of the Kantishna Hills and Dunkle Mine areas of the park" and to issue a report to Congress by December 1983. The study would describe and evaluate a broad range of area resources; in addition, "the Council, in consultation with the Secretary," would "compile information relating to the mineral potential of the areas encompassed within the study, the estimated cost of acquiring mining properties, and the environmental consequences of further development." Congress, knowing full well that both the Kantishna Hills and Dunkle Mine areas had a long, complex mining history along with an active cluster of current mining operations, wanted to ensure that the government would be well-informed about the broad range of area resources before it made further land use decisions.¹⁵⁸

Managing the Park's Mineral Resources, 1978-1985

As noted above, Congress passed the Mining in the Parks Act in September 1976. In the wake of that law, the NPS issued implementing regulations in late January 1977, and the federal Bureau of Land Management completed a report in early October 1978 that ruled on the validity of the park's various mining claims. The completion of that report meant that the NPS was one step closer to simplifying its management over the park's mineral resources.

In December 1978, however, President Carter disappointed that Congress had failed to pass comprehensive Alaska lands legislation-issued seventeen proclamations that established national monuments on approximately 56 million acres of Alaska land. Thirteen national monuments were entrusted to the National Park Service, and one of these was Denali National Monument, a 3,890,000-acre unit that extended north, west, and south of Mount McKinley National Park. Within the newly-designated area was a number of mineral extraction areas, including the Dunkle Mine area (along the West Fork of the Chulitna River), the Tokositna Area (in the Tokositna River drainage), and the Kantishna Hills. The proclamation noted that all lands within the monument were "hereby appropriated and withdrawn from entry, location, sale, or other disposition under the public land



This 1920s photo shows the Quigleys' Red Top Mine and their cabin on the hillside to the right of Friday Creek. Quigley Ridge is on the right. Quigley Collection 80-46-247, University of Alaska Fairbanks Archive

laws, other than exchange," although holders of mineral patents and claims retained their rights to those properties. 159

When Carter signed the Denali National Monument proclamation, most of the land in the new monument was public land that was being administered by the Bureau of Land Management. On October 21, 1976—less than a month after the passage of the Mining in the Parks Act—Congress had also passed the Federal Land Policy and Management Act (FLPMA), which redefined the BLM's mission. Section 314 of that act had mandated that the owners of mining claims on BLM land conform to requirements that were roughly similar to those that had been mandated by the Mining in the Parks Act. Specifically, Section 314 stated that owners of unpatented lode or placer mining claims—within a three-year timeframe—had to I) file either a "notice of intention to hold

the mining claim" or an affidavit of assessment work at the local BLM office, 2) give a copy of the appropriate paperwork to "the office of the Bureau designated by the Secretary" (thus to the park superintendent if the claim was located in an NPS unit), and 3) provide the designated official with "a description of the location of the mining claim or mill or tunnel site sufficient to located the claimed lands on the ground."160 Given the language in Section 314, owners of mining claims in the newly-designated monument had until October 21, 1979 to register and describe their claims. The Alaska mining industry, concerned over how the new monuments would affect the recording process, relayed their concerns to BLM and NPS officials. Together, they clarified that the primary location for mining claim registration for areas in Denali National Monument (and millions of additional acres subject to Carter's proclamation) would be at the offices of the BLM, not the NPS.161

NPS officials in Alaska recognized that the Mining in the Parks Act, which pertained at the time only to the "old park," contained a clause (Section 4) that prevented the expansion of existing mining operations in the park for a four-year period. Because of that clause, and because of the NPS's negative validity determinations, mining in the "old park" came to a virtual standstill after the 1976 season, and any arguments over various claimants' mining plans of operations became part of a larger argument over the validity of those claims.

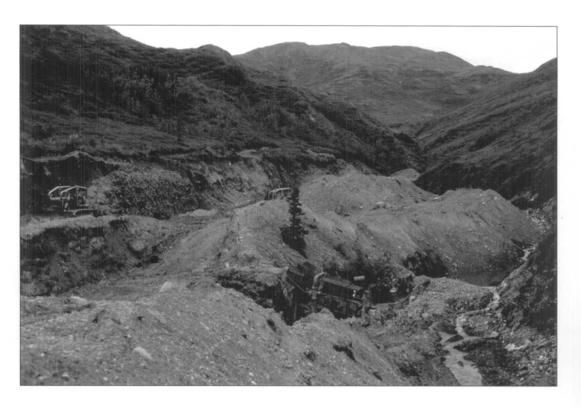
But for many of the mining claims in the newlydesignated Denali National Monument, there was a proven record of recent mining activity. As noted above, mining had taken place in the Kantishna Hills off and on since 1903, and during the 1970s, mines in this area had produced commercial quantities of silver, antimony, and gold. (In 1975 alone, according to one report, "approximately nine placer mining operations involving about 30 men yielded at least 1,000 ounces of gold from Caribou, Glacier, Yellow, Eureka, Eldorado, Spruce, and Glen creeks." Another report, issued the same year, stated that "six operations were underway" in the Kantishna area, "three using dozers and ground sluices, three using front-end loaders and elevated washing-screening plants.")162 In other parts of the newly-designated monument, mining was a less important issue; in the Dunkle Mine area, for example, no active mining had taken place since 1954, and in the Ruth Glacier-Tokositna area, development had never proceeded beyond exploratory activity.163

According to the mining regulations that were issued after the Mining in the Parks Act, owners of mining claims within the monument's boundaries were required to complete, and gain approval of, a mining plan of operations before they could begin work on their claims in 1979. In areas outside of Alaska, the issuance of these mining plans was typically preceded by a field examination conducted by an NPS mining engineer. But given Alaska's short field season and the huge number of mining claims that had just been absorbed into the new NPS units, NPS officials in early 1979 issued a notice stating that mining claim owners—rather than waiting for a formal validity examination—should file a Supplemental Claim Information Statement as part of their mining plan of operations.164 As a result, owners of various Kantishna-area mining claims submitted mining plans of operations prior to the 1979 field season; the Alaska Miners Association, in most instances, assisted miners with this task. And except in a few instances where claimants could not prove a legal right to specific claims, NPS officials told claimants that their claims were "considered eligible for continued operations" and that "you are hereby authorized to continue your mining activities on a temporary basis ... in accordance with the details and procedure of your proposed plan of operations." Claimants were warned, however, that the agency's expedited approval "should in no way be construed as a final determination of validity."165

The NPS, recognizing that mineralization existed in many areas within the newly-established



During 1982 and 1983, large-scale placer mining was conducted on the Discovery claim on Friday Creek, just upstream from the creek's park road crossing. In this 1983 photo, the Red Top Mine is at the center of the photo. NPS Photo, WAGS Collection



In 1984, this claim on upper Friday Creek was being mined with large equipment. Claire Roberts Photo, NPS, WAGS Collection

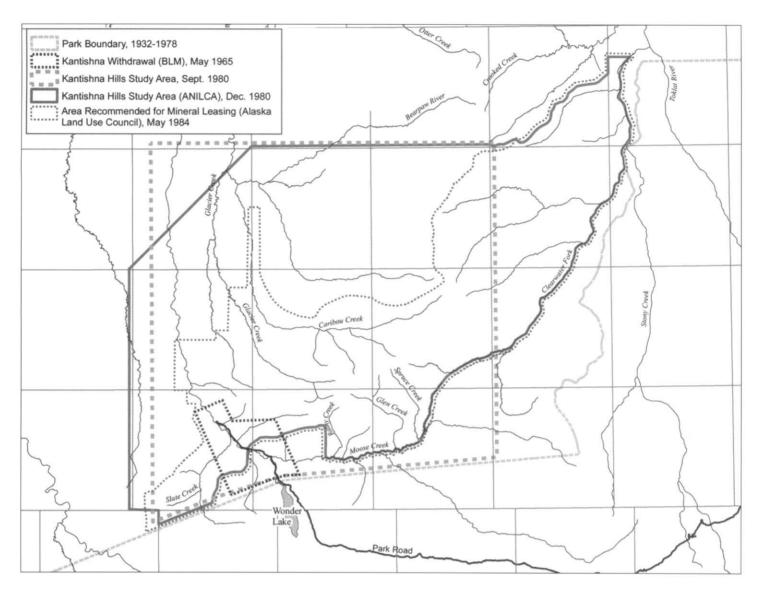
monument, dispatched several employees from the Denver Service Center's Special Studies Unit to learn more about the ongoing mining operations plus the major natural and cultural resources in the surrounding area. One DSC staffer, Wayne Hamilton, remained in the area from July through September 1979. He concluded, in a season-ending report, that "the validity of claims associated with many of the ongoing operations is probably assured based on an informal assessment," but "some of the claims being worked on a very small scale may be invalid." He conceded that "any National Park Service efforts to independently examine any one of these claims for validity would be an expensive and time consuming affair", a process made even more problematical "if the cooperation of the miners were not forthcoming." He recommended a long-term, expanded NPS monitoring and management role.166 At this time, the agency had little interest in land acquisition; as Director William Whalen noted, the agency's goal was "to purchase private inholdings in the new national monuments on a willing seller-willing buyer basis. It is not anticipated that an active land acquisition program will be developed there, especially in the first few vears."167

Based on Hamilton's data, DSC staff returned in the spring of 1980 and established an ad hoc, 180,000-acre Kantishna Hills Study Area (see Map 8), where most of the recent mining activity had taken place. A team under the direction of Alex Carter began to compile information for a report "intended to assist the NPS ... in adequately assessing the effects of existing and

future mining activities on [area] resources ... and to expedite the processing of proposed mining plans." The agency hoped that the material would provide enough data for "adequately evaluating the majority of proposed plans and preparing the necessary environmental analyses and reviews." 168

The investigators soon learned that the area offered a wide variety of minerals. Deposits of lead, silver, zinc, antimony, and gold were found in several areas, while mercury and tungsten occurred in single deposits. Based on BLM data supplied after the FLPMA-mandated October 1979 deadline, the area contained 163 recorded placer claims (none of them patented) and 128 recorded lode claims (34 of them patented); together, these 291 claims covered 6,580 acres. More than two-thirds of those claims, however, were not being actively worked. DSC staff, during their 1980 investigations, noted that just 69 placer claims were being mined by 12 operators and that only 8 lode claims were being mined by 3 operators.¹⁶⁹ The agency's September 1980 report provided information about each potentially valid claim as well as additional details on active mining operations; also included was a brief history of area mining, information about the environmental impacts of mining activities in each drainage area, and suggested mining mitigation methods.170

By the time DSC had issued its 1980 Kantishna report, both houses of Congress had passed an Alaska lands bill, and in December 1980 President Carter signed ANILCA into law. ANILCA,



Map 8. Kantishna Hills Administrative Actions, 1965-1984

as noted above, called for a special Kantishna Hills study. That study would be distinct from the DSC effort in four ways: 1) it would include the Dunkle Mine area (west of Cantwell) as well as the Kantishna Hills, 2) it called for a collaboration between the Interior Department and the Alaska Land Use Council,171 3) the study would examine a broad range of area resources, not just mining, and 4) it would "compile information relating to the mineral potential" of the two areas as well as "the estimated cost of acquiring mining properties."172 In order to respond to its new mining-related tasks, Congress provided a \$650,000 funding allotment during the 1981 fiscal year; that allowance, which would be spent throughout Alaska, was a greater amount than had been allotted to any of the newly-established parks.173

Soon after ANILCA's passage, NPS staff began to re-examine the work they had undertaken at Kantishna in 1980. Inasmuch as Congress had established a new Kantishna Hills/Dunkle Mine Study Area with specifically-delineated

boundaries, the Kantishna portion of the study area was expanded from approximately 180,000 acres to 194,968 acres; added to that was the Dunkle Mine area, which comprised most of a single township (22,841 acres).¹⁷⁴ The NPS study team, hoping to be all-inclusive, reached out and included all areas in Denali National Park and Preserve that contained recorded mining claims; this not only included the West Fork area (which was in and near the Dunkle township) but also the Tokositna area (which had two small claim groups near the terminus of Tokositna and Ruth glaciers).¹⁷⁵

The team released its findings in a September 1981 report. It stated that the Kantishna Hills had a total of 150 recorded placer claims (18 fewer than the year before, although 51 other placer claims were under adjudication); in addition, this area now had 126 recorded lode claims, 2 fewer than in 1980.¹⁷⁶ (See Map 9.) In the Dunkle Mine area, there were 18 placer claims and another 187 lode claims, and in the Tokositna area, 8 lode claims were located west of the Tokositna



This 1984 photo, looking downstream, shows placer mining on upper Friday Creek. The Kragness camp of 1982-83 on the Discovery claim, once located downstream from the active mining area, is now gone. Claire Roberts Photo, NPS, WAGS Collection

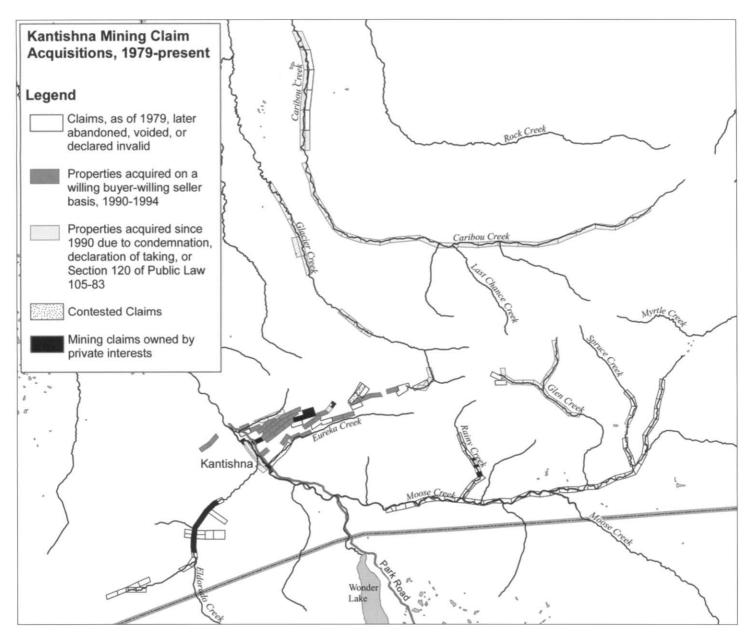
Glacier terminus and 3 placer claims just south of the Ruth Glacier terminus.177 Again, however, there were relatively few active mining operations. In the Kantishna Hills, as noted above, less than one-third of placer claims and less than one-tenth of lode claims were active.178 In mineralized areas south of the park, these percentages were even lower: although quite a few claims showed some evidence of minor exploration and survey work, investigators also noted that "there are currently no major mining operations in these areas of the park, and no major mining activity is anticipated in the future. ... little, if any, extraction has occurred."179 The report also described the environmental impacts of mining in areas both north and south of the Old Park and discussed a variety of mitigating measures. 180

Soon afterward, the Alaska Land Use Council and the U.S. Interior Department began preparing the reports that ANILCA had mandated. Section 202(3)(b) had called for a wide-ranging environmental report evaluating "the resources of the area, including ... fish and wildlife, public recreation opportunities, wilderness potential, historic resources, and minerals," all with a December 1983 timetable. Given that direction, the so-called Kantishna Hills/Dunkle Mine Study Group (which was composed of 17 employees from four federal and three state agencies) immediately set to work. It asked two NPS biologists to inventory Kantishna Hills' fish populations and the effects of mining on those populations; it also asked a third NPS biologist to make a similar study on Kantishna Hills' wildlife. These studies were completed in 1983

and 1984, respectively.¹⁸¹ Funds available to outside investigators, however, were not available until later. Finally, in May 1983, the Department contracted with Salisbury and Dietz, Inc. on a comprehensive study of the mineral potential in both the Kantishna Hills and Dunkle Mine areas. This study included geologic mapping, geochemical and geophysical surveys, placer studies, and the collection and analysis of 2000 core samples retrieved from 22 Kantishna Hills drill holes. The company issued a report of its findings in the spring of 1984.¹⁸²

While biologists and contractors were at work on specialized studies, the study group went to work on a draft environmental impact statement (EIS), the purpose of which was to gather a wide range of scientific data and present various mining-related policy alternatives. In order to meet Congress's deadline, the document was released in late May 1983. It described the environment of the two study areas, outlined six widely-varying policy alternatives, and analyzed the impact of each alternative on the areas' environment. Because much of the biological and mining-related data was still being compiled (see above), the draft EIS refrained from suggesting a preferred alternative. The document did, however, provide a structure for upcoming reports. 183

After the report was issued, the public was given until late July 27, 1983 (later extended to August 27) to comment on the report's findings. In mid-July, public meetings were held in four Alaska localities, which were attended by a total of more than 200 people. At the Anchor-

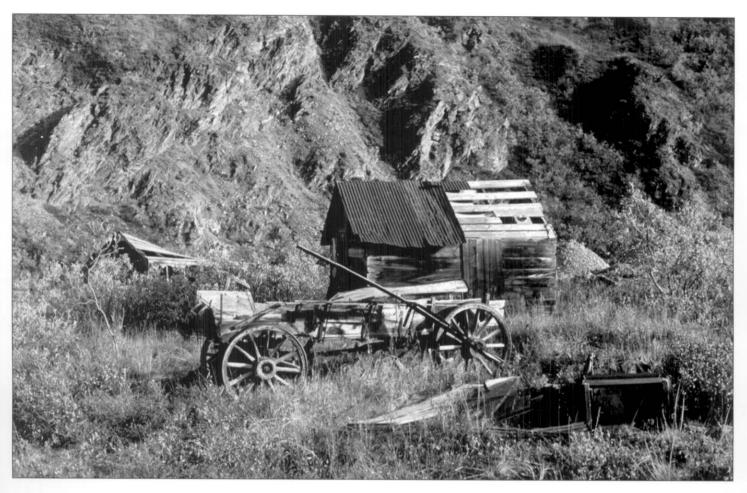


Map 9. Kantishna Mining Claim Acquisitions, 1979 to Present

age meeting, the majority of the 70 attendees expressed a preference for having the NPS purchase all of the existing mining claims, but at the other three meetings (at Fairbanks, Healy, and Kantishna), most participants took an opposite tack, stating a preference for having both study areas removed from the park. The study team also asked for written comments. In response, 96 such comments were received, most of which strongly favored the mining-claim-acquisition alternative.¹⁸⁴

During the winter of 1983-84, the Kantishna Hills/Dunkle Mine Study Group was hard at work on completing its various reports. The results of that work bore fruit in two separate studies: a series of policy recommendations that the Alaska Land Use Council issued in May 1984 (just one month after Salisbury and Dietz issued its report), and the final EIS, which was issued seven months later.

The Kantishna Hills/Dunkle Mine Study Group, which reported its recommendations to the Alaska Land Use Council on May 3, 1984, suggested different directions for the two mineralized areas. Regarding the Dunkle Mine area, the study group recognized that three of the seven agencies recommended Alternative I, which "would allow mining-related activities to continue on existing valid unpatented placer and lode claims." The Council also recommended that option, although with the caveat that available data on the area's mineral resources and its use by the Denali caribou herd "were only marginally sufficient to make the decisions required by ANILCA". 185 Regarding the more contentious Kantishna Hills area, three of the seven agencies again recommended Alternative 1, the "maintain status quo" alternative. The group, however, apparently bent to the wishes of the Alaska Department of Natural Resources, which had recommended that the Interior Department implement



Located on upper Caribou Creek, the remains of a wooden tool shed and a wooden freight wagon (pictured above in 1984) represent historic mining activities including transportation, habitation, maintenance, mining, and mineral processing during the Carrington Company's operations from 1939 to 1948. Claire Roberts Photo, NPS, WAGS Collection

a mineral leasing program beginning during fiscal year 1989. The idea seemed out-of-the-ordinary because it was not described in any of the six alternatives in the draft EIS; in addition, the implementation of a leasing program would require new Congressional legislation. The report noted, however, that "many agency concerns were alleviated by the conditions written into the proposed leasing program, which require that water quality standards and other standards would be attained prior to implementation of the program."186 Three weeks later, the Alaska Land Use Council met to consider the study group's recommendations. Recognizing that "it was the obligation of the Council ... to make a recommendation to Congress," but also noting that "the ultimate action is that of Congress," the Council voted to concur with the study group's report and recommendations.187

As soon as the study group's recommendations became known, voices rose up in protest. Federal co-chair Vernon R. Wiggins—the lone Council member who did not concur with the study group's recommendations—wrote a lengthy, impassioned letter denouncing the action, and soon afterward, nine Interior legislators signed a joint letter stating that the proposed action was unworkable. NPS Regional Director Roger Contor, whose agency had advocated a continuation

of the status quo as it pertained to Kantishna Hills mining, carefully noted that the leasing plan was "an acceptable middle ground" worked out by diverse interests. He did not say, however, that he would work to implement the Council's plan. Instead, that decision would depend on the results of the park's general management plan (a draft of which was then being prepared) and on any Congressional action that might be forthcoming. Contor's superiors in the Interior Department, William Horn and G. Ray Arnett, agreed with Wiggins; despite their position as Reagan administration appointees, they objected to the Council's recommendation and instead concluded that "after weighing both mineral and park values, we believe ... that mining [should] be phased out in this area."188

The final EIS was completed in December 1984. It was much larger than the May 1983 draft, in part because it incorporated data that had been gathered after the draft report had been completed. The recommendations in this document reflected those that had been published in the May 1984 Alaska Land Use Council report. Consistent with the stance taken by Contor and other NPS officials, however, the agency never issued a record of decision for the document; and the NPS, during its 1985-86 park general management planning process, consistently



In the center of this 1987 aerial view of upper Caribou Creek is the tool shed and wagon (seen in the previous photo) dating from the 1939-1948 mining operations, beyond which is the Hayhurst and Kragness operation dating from 1984-1985. This latter operation, during its brief heyday, processed the largest amount of gravel in the Kantishna District. Mining & Minerals Survey, DENA Cultural Site Files

noted that although "mining on valid existing claims" was "authorized in the park subject to applicable laws and regulations," the agency "would oppose a significant increase in mining operations," primarily because of traffic and access-route concerns. Congress, for its part, never responded to the Council's recommendations by attempting to institute a Kantishna Hills leasing program.¹⁸⁹

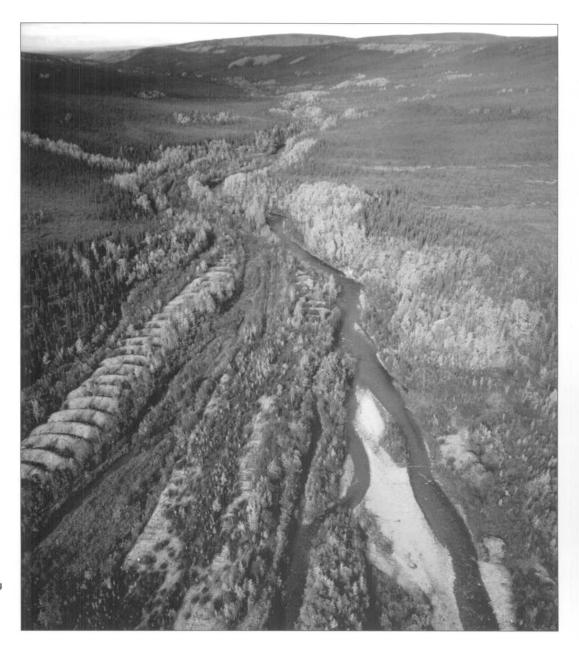
The 1985 District Court Injunction and its Impacts

As noted above, the 1976 Mining in the Parks Act stated that in order to operate within the various park units, the owners of patented and unpatented mining claims had to obtain mining plans of operations each year. Regarding mining claims in the Old Park, NPS mining engineers conducted field examinations in 1978 and concluded that none of the 74 claims existing claims passed the validity examinations. This conclusion, in turn, started a process of administrative and legal actions that, by the end of 1986, had resulted in declaring all of these claims null and void.

For mining claims located outside of the Old Park, however, the process was different. As noted above, the hundreds of claims that became part of Denali National Monument in December 1978 were a subset of a much larger number of claims that came under NPS jurisdiction throughout Alaska. These claims, in toto, were so numerous that the incremental approach that the agency had previously taken would take decades to complete. To expedite matters, therefore, the agency authorized temporary approvals for most of those who had submitted complete mining

plans of operation (although it also stated that these approvals "should in no way be construed as a final determination of validity"). Given the cost and complexity of undertaking these final determinations, and the limited budget for validity examinations, the agency in most instances annually renewed these "temporary" mining plans of operations. During and after this period, the Kantishna Hills was the center of mining-related activity, to the exclusion of all other areas in Denali National Park and Preserve.

Given the fact that the most miners, by the early 1980s, were renewing previously-approved operating plans, and given the additional fact that renewal applications were less time-intensive operations than initial applications, most miners willingly (if begrudgingly) followed the necessary bureaucratic steps.190 (NPS employee Bill Tanner noted that "most of the miners have been very good about submitting plans and talking to us.") But Jim Fuksa, the owner of the Palmer-based Red Tape Mining Company, however, refused on principle to fill out any forms; he told a ranger that he "didn't have to do any paper work because his paper work was the constitution." In early July 1982, moreover, he and an associate illegally bulldozed a 21/2-mile-long, 10-foot-wide road to his four Yellow Pup placer claims, located along a Glacier Creek tributary. Confronted on the matter by NPS officials, Fuksa and his colleagues initially chose to continue their mining operations, but on August 2 they finally submitted a mining plan of operations. To stop further damage to area resources, District Court Judge James Fitzgerald—acting on the NPS's behalf—issued an August 9 temporary restraining order



Claims on Caribou Creek were first staked during the summer of 1905, and the entire length of the creek was subsequently staked for either placer or lode claims. From 1905 to the mining injunction of 1985, a succession of mining techniques was used, each one obliterating some of the physical remains of earlier mining operations. Remains of various mining operations (including the tailings piles seen on left) are shown in this 2007 photo. NPS Photo

against further road construction work, and four days later, the miners agreed to the judge's order. On August 21, Fuksa and his partners agreed to stop any additional mining-related activities until the NPS approved their mining plan of operations. The agency's acting regional director approved that plan just three days later, after which mining resumed.¹⁹¹

The NPS's mining-related regulatory system continued, with few changes, into the mid-1980s. In 1983, for example, NPS officials tentatively approved at least 19 mining plans of operation covering 37 claims, and in 1984 they similarly approved 16 mining plans of operation covering 46 claims. Furthermore, the agency—following access guidelines set forth in Section IIIo(b) of ANILCA—granted the Kantishna Mining Company a permit to construct a 12½-mile access route between the park road and the company's Caribou Creek claims. (Company officials con-

structed this road, now known as Skyline Drive, in 1983.) 193

During this period, from 1979 to the mid-1980s, the agency's primary area of concern dealt with reclamation. The miners' various plans of operation promised specified reclamation activities, but agency field observers noted, all too often, that reclamation was implemented either poorly or not at all. 194 So to ensure a closer broader compliance, the NPS in the spring of 1985 initiated a bonding program, effective immediately, with a minimum bond of \$200. Agency officials told claimants and operators that "reclamation progress will be monitored throughout and after the mining season and will be approved or rejected, thus releasing a portion, all or none of the bond obligation."

Then, in July 1985, an Anchorage judge dropped a bombshell that effectively forced the closure of mining in Alaska's NPS units. On July 22, Dis-



Shown above is a part of the 2½-mile-long road, illegally bulldozed in 1982, which connected the Yellow Pup placer claims (in the Glacier Creek drainage) to the park road. NPS Photo

trict Court Judge James A. von der Heydt issued a preliminary injunction in a suit that had been filed on May 8 by three Alaska-based environmental groups. During June 21 oral arguments, the plaintiffs had alleged that the NPS had a mandatory duty (based on agency regulations is-

sued in response to the 1976 Mining in the Parks Act) to review the environmental impacts of each mining operation it approved, but in seven years the agency had "not once prepared an environmental assessment." The judge, siding with the plaintiffs, noted that mining in Alaska's park



Access from the park road at Kantishna to Glacier and Caribou Creeks was over low country northwest of the Kantishna Hills. Mining equipment and vehicles were used to get through the boggy ground and a maze of trails developed, especially in the early 1980s, as seen in this 1983 photo. NPS Photo



Following access guidelines set forth in ANILCA, the NPS permitted the construction of a 12½ mile access route between the park road and mining claims on Caribou Creek. This 1983 view shows Skyline Drive construction (dark cut on right side of photo) in progress in the upper headwaters of Glacier Creek. John Dalle-Molle Photo, Resource Management Slide File, NPS

units was causing "major adverse effects on fish habitat, water quality and scenic values" and was producing "wastewater discharges that grossly exceed water quality standards." Given those conditions, he ordered all park mining to be shut down "until such time as adequate environmental studies have been prepared and proper access permits issued."

An NPS spokesperson, upon hearing the decision, defended the agency's course of action. She stated that in all lands that had been under jurisdiction only since 1978, the agency had "attempted to phase in regulations so as not to place an unreasonable burden on the miners who had been working in this area." "Every year since 1980," she noted, "the park service has tightened up enforcement of the mining regulations, requiring more detailed plans of operations and increased compliance with state and federal regulations," but if the NPS had "enforced the law to the letter in 1980 it would have effectively closed down every mining operation."

Von der Heydt's injunction applied to approximately 40 mining operations in seven Alaska park units and gave operators 45 days—until September 4—to cease all mining operations. NPS officials told them that after that date, only reclamation work would be permitted. As for miners' long-term prospects, officials promised to contact them "within 60 days with information on the Court's order and its effect on the 1986 mining season." And at two parks, the judge imposed an additional hurdle; because most mining activity (and most environmental

degradation) had taken place at the Wrangell-St. Elias and Yukon-Charley Rivers park units, the judge disallowed future mining in those park units "until adequate environmental impact statements have been prepared that study the cumulative environmental effects of mining in those parks."197 Five months later, after further prodding from environmental groups, von der Heydt added Denali to that list. Shortly after the Denali ruling, a Sierra Club Legal Defense Fund attorney explained that "the Park Service cannot intelligently decide [on individual mining operations] until they get a look at the whole picture. ... for example ... there might be a need for fewer roads and access routes into mining claims once the park service looks at the entire area, instead of considering individual mines." But an Alaska Miners Association representative, stung by the ruling, stated that its practical impact would be to put hundreds of miners—owners of inactive claims as well as active miners—out of work in 1986 and perhaps longer than that. 198

Most miners—feeling that they had little choice in the matter—finished up their work that season and reconciled themselves to waiting things out until the bureaucratic process had run its course. Not everyone gave up so easily, however. In July 1985, the Gold King claimants (brothers Eric and Paul Weiler) decided to continue mining even though the NPS had suspended their mining plan of operations. The agency, perhaps to countermand the notion that it was lax in its rules enforcement, cited one of the brothers (Eric Weiler) for mining without an approved mining plan of operations. After a September 18 court trial,

District Court Magistrate John D. Roberts ruled that Weiler was guilty. Another miner who did not give up was Sam Koppenberg, who applied for a mining plan of operations in 1986 for his Caribou Creek claims and came close to getting it approved. Technical difficulties intervened, however, and the agency was unable to approve any Kantishna-area mining plans of operations for the remainder of the 1980s.

In response to the judge's mandate, NPS Director William Mott, in late 1985 approved the establishment of a new Minerals Management Division in the Alaska Regional Office in Anchorage. Soon afterward Floyd Sharrock was selected as the division chief, and several new employees were hired to staff the division. In order to complete the Denali study, the park in 1986 hired an environmental specialist and a geologist.201 That spring, it began work on an EIS on the cumulative impacts of mining in the Kantishna area, and in pursuit of that goal, a large field camp was operated out of a base camp at the Stampede Mine airstrip. For the following two years, Moose Creek Camp was located near the Friday Creek confluence, just southeast of the Kantishna Airstrip. Out of those camps worked a wide variety of geologists, biologists, archeologists, and other specialists; they, in turn, worked with park headquarters staff and with other agency staff based in Anchorage and Denver.202

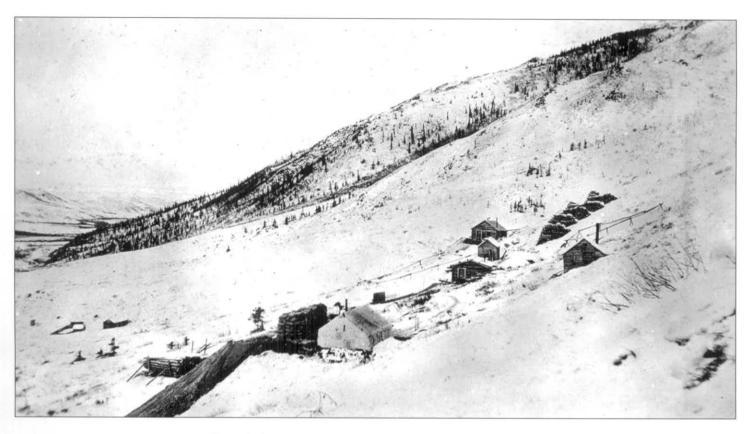
In the midst of gathering data for this study, and for similar studies for the Wrangell-St. Elias and Yukon-Charley park units, the planning process took shape. In September 1986, three scoping meetings were held around the state; officials at these meetings informed the public about what the agency was undertaking and asked the public which issues the EIS should address. Later, in March 1988, the NPS sponsored two more scoping meetings, where the public was asked to help define the range of alternatives.²⁰³

The NPS completed its draft EIS and made it available to the public in mid-April 1989. It offered four alternatives: a no-action alternative, two similar alternatives in which new mining plans of operations would be evaluated against a series of identified "target" resources, and a fourth alternative which called for the agency to develop a mining claim acquisition plan so that the agency could acquire all patented and valid unpatented mining claims in the park and preserve. The agency, in the draft EIS for all three park units, stated that its proposed action called for the preparation of resource protection goals for riparian wildlife, fish, grizzly bear, black bear, moose, caribou, and wolf. Given those goals,

mining plans of operation could be denied if any of those goals could not be met because of the potential effects of a proposed mining operation. And in cases where the agency was unable to approve a mining plan of operations, it stated that it would pursue acquisition of the claims by purchase, exchange, or donation.²⁰⁴

In mid-May, the agency held public hearings on the draft EIS in Anchorage and Fairbanks. The deadline for public comments, originally set for mid-June, was extended until August 14 due to public requests in the matter.205 The NPS received a total of 17 oral and 54 written comments. Of those, not one comment called for the adoption of the agency's proposed draft alternative; instead, a solid majority (41 of the 71) organizational and individual comments urged the NPS to adopt a new alternative that called for the NPS to acquire all patented and valid unpatented mining claims. Given those responses, Regional Director Boyd Evison chose the acquisition route as the agency's preferred alternative, not only for Denali but for the Wrangell-St. Elias and Yukon-Charley Rivers park units as well. These plans, dated April 1990, were made available to the public in early June. On August 21, Evison signed a record of decision that implemented the document's recommendations.206

The NPS's stance, of fully supporting the acquisition of all valid mining claims in the Kantishna area, was a startling about-face to the position it had taken just six years earlier. During the late 1970s and early 1980s, neither the agency's overall management policies nor the regulations that were issued after ANILCA's passage called for the acquisition of mining claims in the new or expanded Alaska park units, except on a willing seller-willing buyer basis. As noted above, the first inkling of the agency's attitude toward mining claim acquisition appeared in 1983-84 during its participation in the Alaska Land Use Council's preparation of the Kantishna Hills/Dunkle Mine study report. The NPS's draft EIS, released in May 1983, stated that the acquisition of the 34 patented claims and 194 unpatented claims in the two study areas would cost between \$3 million and \$6 million. It also stated that the acquisition of all mining claims would be one of six policy alternatives. Neither the NPS nor the council, however, chose a preferred alternative at that time.207 During the ensuing year, a consulting firm compiled an acquisition cost study for the two study areas; this firm determined that acquiring these claims would be considerably higher than the NPS had estimated: \$86.5 million to acquire the patented claims and another \$70.7 million for the unpatented claims, for a total acquisition cost of \$157.2



Joe Quigley was one of the first prospectors to stake lode claims in the Kantishna District. Shown above is his Red Top Mine in 1923 when about 102 tons of silver-lead ore (foreground) was mined and stacked, ready to be transported to the Alaska Railroad. Brooks Collection, 68-32-486, University of Alaska Fairbanks Archive

million. Perhaps based on the considerable costs involved, the NPS (represented by its regional director, Roger Contor) recommended that the full council choose the "maintain status quo" option, which called for claim acquisition to "occur only on a willing seller – willing buyer or donation basis except in cases where it could be determined that mining would significantly and adversely affect park lands." For reasons stated above, the council voted to choose the "maintain status quo" option for the Dunkle Mine area, but for the Kantishna Hills, it voted to implement a mineral leasing plan.²⁰⁸

Regional Director Roger Contor, in the wake of the council's vote, noted on the one hand that the council's recommendation was an "acceptable middle ground," but he also stated that the agency's long-term recommendation would be made in the park's general management plan, which was then being compiled. Consistent with his earlier recommendation, he opined that the agency's plan "probably will seek to allow only current mining to continue, as well as the purchase of existing claims when they become available."209 NPS Director Russ Dickenson, upon hearing the council's Kantishna Hills recommendation, stated that he hoped to see the NPS gradually phase out mining and possibly buy out some claims. "Where compensation is required, fine," he said.210 And in a surprise move, two high officials in the Reagan administration's Interior Department agreed with Dickenson; G. Ray Arnett and William Horn stated that "it is in

the public interest as well as sound park management and resource protection that mining be phased out in this area."²¹¹

During the 1985-86 process that resulted in the park's general management plan, the agency took a more protective stance than Contor had predicted in June 1984. The plan stated that "patented and unpatented claims may continue to operate, subject to federal mineral management regulations." The agency, however, would "use existing authorities to minimize the adverse effects of ongoing mining activities. Validity determinations for unpatented claims will be completed as quickly as possible to determine status. Wherever new mining activity might introduce development into a previously undisturbed area, the National Park Service will acquire the mineral properties in fee title, through donation, exchange, or purchase." The agency's newly aggressive stance was due, in part, to worries that patented, Kantishna-area mining claims might be used for new visitor facilities. So "to avoid this potential for adverse effects," the plan called for the agency to "seek to acquire, through purchase, donation, or exchange, the surface estates to [all] mining properties to preclude large-scale recreational development." The accompanying land protection plan called for the purchase of the surface estate of 41 patented lode claims; the outright purchase of 2 other patented lode claims (located along the west side of Moose Creek); and the purchase of 65 unpatented Kantishna-area claims, from three



A 35-ton-per-day flotation mill was constructed on the Red Top mine site in 1973. This was used to process 120 tons of silver ore from a nearby claim. The operation was discontinued after one season. Bryan Swift Photo, NPS, WAGS Collection

different owners, pending the results of validity examinations.²¹²

Evidence of the agency's use of "existing authorities to minimize the adverse effects of ongoing mining activities" (see above) was not long in coming. NPS mining personnel took a renewed look at the language of the Bureau of Land Management's May 1965 withdrawal. They soon found that although the Interior Board of Land Appeals had already adjudicated the legality of those claims filed before May 1965, no determinations had yet been made of the 28 claims from within the withdrawal boundaries that had been made after that date. In response, the NPS's regional director asked the BLM to adjudicate those claims. The BLM did so, and in April 1987 it issued a decision in the matter. Just one of those claims was fully legitimate; another six were partially null and void, and the remaining 21 claims were fully null and void. The BLM's investigation was a considerable help to the NPS's ongoing efforts to ascertain the ownership patterns of Kantishna-area claims.213

During the late 1980s, the NPS's stance became even more protective during the process that resulted in the EIS pertaining to the cumulative impacts of Kantishna-area mining. In the summer of 1987, agency geologists began conducting validity examinations on placer and lode claims throughout the Kantishna area, and in 1988, "work went forward on amending the Land Protection Plan" (which was incorporated into the mining EIS) "so that it would be possible to eventually purchase all patented and unpatented

claims in Kantishna."214 The draft EIS which was issued in the spring of 1989 (see above) stopped short of recommending a land-acquisition option. Instead, its recommended alternative stated that mining plans of operation would be issued only if that mining operation did not prevent the attainment of a broad series of resource protection goals. And if a mining operation could not avoid causing "unacceptable damage," the agency "would pursue acquisition of the mining claims by purchase, exchange, or donation."215 By the end of 1989, however, the NPSeither in response to public opinion or because the system it had proposed in the draft EIS was deemed unwieldy—had changed its position; it now intended "to acquire the patented lands and unpatented mining claims in Kantishna through fee purchase." That position was reflected in the final EIS, which was completed and distributed in the spring of 1990.216

During the period between the issuance of the mining injunction and the completion of the mining EIS, private interests continued to be active in the Kantishna area. As noted in previous chapters, Camp Denali had opened its doors to guests in June 1952, and in late 1975 Wally and Jerri Cole acquired it. Gary Crabb, who owned the McKinley Village complex, opened a second area hostelry, the North Face Lodge, in 1973. But during the 1980s, proprietors Roberta Wilson and Dan Ashbrook gradually improved the property adjacent to the old (1919) Kantishna Roadhouse, and by the late 1980s the site offered a dining room, bar, lounge, and library along with modern cedar cabins. In 1987,



In 1991 the NPS purchased the Red Top claim and most of the mill was removed. An initial site clean-up, including hazardous materials assessment and barrel removal, was conducted in 1993. Visitor accessibility combined with unsafe high walls, habitat degradation, impaired water quality and visually offensive views combined to place this abandoned mine site as one of the park's top priorities for restoration activities. Kenneth F. Karle Collection

Camp Denali's owners purchased the North Face Lodge, and two years later, Gary and Danae Kroll opened the Denali Mountain Lodge, a 24cabin complex located along Moose Creek near the Kantishna Airstrip.²¹⁷

Among miners, however, operations largely stopped. The NPS, otherwise occupied with compiling the mining-related EIS, allowed miners continued access to their mining claims.

They issued documents that allowed them to remove their equipment, and from at least one miner, they obtained a contract for gravel extraction. But some miners, upset at both the judge and the Park Service, chafed at their enforced idleness. During the summer of 1987, for example, NPS field crews "had to endure various forms of harassment from the locals," and the owners of one claim carved out an unauthorized road and worked on their claim until cited by



Heavy equipment was used in 1999 for the Red Top mine restoration project, including installation of an adit drain and drainage treatment tank, and recontouring of the mine and mill area. The tall trees just beyond the former Red Top mine site, as seen in this 2007 photo, indicate the former cabin location of Fannie and Joe Quigley. NPS Photo

a ranger.²¹⁸ But the overall mood was quiet, as noted in an April 1990 *Alaska Magazine* article:

Mining in Denali National Park remains indefinitely suspended until the park service completes its studies and presents its findings in federal court. ... Not surprisingly, most of Kantishna's miners chose not to wait around. Many relocated or retired, but some less fortunate gold seekers were driven to bankruptcy. ... [According to one Kantishna-area resident,] "Out of 13 [mining] operations, 11 went bankrupt." ²¹⁹

Developing and Implementing a Buyout Plan

As noted above, the agency's preferred alternative for the mining EIS called for the NPS to develop an acquisition plan to acquire all patented and valid unpatented mining claims in the park unit. The agency, at that time, estimated that the current gross value of the park's patented and unpatented mining claims was between \$16.5 million and \$21.5 million, although it also recognized that the total acquisition costs would exceed those figures due to various administrative costs. (Miners, however, countered that the claims were worth \$150 million or more.)220 Anticipating the need for buyout funds, the Alaska Congressional delegation assisted the process. They requested a list of all Kantishna area inholdings and an areawide management plan. The NPS, in response, completed a Kantishna Resource Management Plan and submitted it to Congress in early July 1990, and by late July the Senate had approved \$6 million for land acquisition purposes. Shortly after the NPS signed the record of decision, the House of Representatives chipped in with a like amount, to be withdrawn from the Land and Water Conservation Fund for the acquisition of Kantishna mining claims from willing sellers. By the end of the year the agency was on the verge of spending some \$3 million from that allotment, and officials estimated that to complete the buyout process, \$6 million would be needed annually for the next five years.221 In 1991, park officials completed their "first major purchase of prioritized real estate," a 329-acre tract of patented mining properties on Quigley Ridge from Leo Mark Anthony.222

Meanwhile, miners did their best to actively operate their claims. The August 1990 decision that approved the eventual mining-claim buyout also stated that "until such time as funds are available for acquisition, the NPS will process mining plans of operations, amendments or modifications to existing mining plans…".²²³ A month later, NPS attorneys filed a motion to

dissolve the five-year-old mining injunction, and although environmental groups opposed that motion, the district court approved the motion and on January 2, 1991 the injunction was lifted. Meanwhile, environmental groups appealed the district court's decision to the Ninth Circuit Court of Appeals, but in April 1992 the appeals court affirmed the lower court's decision and allowed both the resumption of mining activity (according to stipulations laid out in the recentlycompleted EIS) and the implementation of the EIS's provisions.²²⁴ Soon afterward, operators submitted six mining plans of operations to the NPS, and by the end of 1991 two had been found "potentially approvable."225 Those two operators, however, showed little interest in working under the NPS's proposed arrangement. As a result, no Kantishna miners started up during this period; no commercial mining, in fact, has taken place anywhere in Denali National Park and Preserve since the end of the 1985 season.226

As noted in Chapter 9, claimholder Dan Ashbrook brought considerable consternation to NPS officials during the summer of 1990 when he and his fiancée, Valerie Mundt, opened a recreational vehicle campground with "pioneer cabins" (wall tents) on one of his Moose Creek claims. Ashbrook had begun working at Kantishna as a tenant miner in 1959 and had acquired his first claims in the early 1960s; as noted above, he had first come to the attention of NPS officials in late 1969, when he helped haul a "cat train" from Wonder Lake to the Slippery Creek claims over an unauthorized route. In need of income, and because the 1985 court injunction prevented him from mining his Moose Creek claims, he and Mundt operated the campground throughout the 1990 summer season as a new way to generate revenues. In July of that year, he denied that his campground venture was intended to spur Congress and the NPS to purchase his claim. But two months later, Ashbrook-recognizing that both economics and politics was preventing him from profiting from the campground, and also recognizing that Congress was finalizing a buyout plan-indicated a willingness to sell some or all of his claims.227

Beginning in 1991, a host of new would-be miners appeared on the scene as a result of actions taken by the State of Alaska. Perhaps spurred on by the states' rights rhetoric of Governor Wally Hickel, who had been elected in 1990, state water officials in 1991 asserted that Moose Creek (the primary Kantishna-area waterway) was navigable. And because the Alaska Statehood Act noted that the state government had control of navigable rivers up to the high-water line, Division of Mining officials concluded that they were



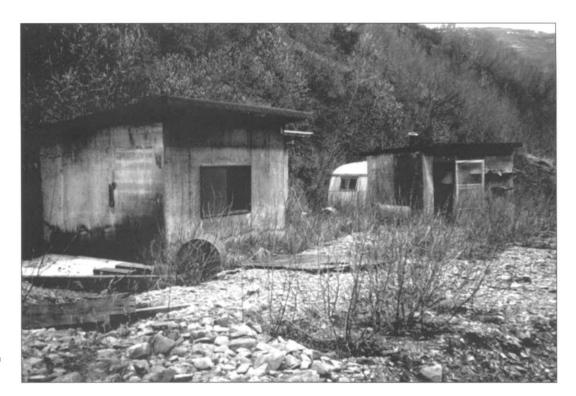
Eureka Creek, originally staked in 1905, had intermittent placer mining occurring at its mouth and along the entire length of the creek until 1985. This photograph shows the park road crossing at Eureka Creek and mining activities shortly before the 1985 mining injunction, including a recent bench cut on the right. NPS Photo

authorized to issue mining permits for operations taking place in the Moose Creek riverbed. The Division therefore issued its first mining permit, to a Slana resident, in September 1991, and by the following spring, permits had also been issued to two Fairbanks residents. National Park Service officials, however, disputed the state's authority to issue these permits. It asserted that Moose Creek was not navigable and was therefore under federal control. Park officials, recognizing that local miners lacked a Corps of Engineers permit, stated that they would stop anyone who planned to haul mining equipment down the park road; according to acting superintendent Linda Toms, "I denied that access and will continue to deny it." None of these permittees, as a result, mined along Moose Creek that summer. Hickel administration officials later withdrew their claims to ownership of the creek, after which they issued a mineral closing order for state lands throughout the park unit.228

Throughout the first half of the 1990s, the NPS continued its program of buying Kantishna-area mining claims on a willing-buyer, willing-seller basis. The program, however, proved less than successful after 1991, primarily because there were relatively few claims owned by willing sellers that were not clouded by bankruptcy or title problems. Another sticking point was the widely varying perceptions of what the various claims were worth; a Bureau of Mines contractor, for example, determined that one group of 13 unpatented claims was worth \$18.6 million, but an NPS appraiser concluded that the same properties were worth just \$172,000, which was less than

one percent of the contractor's estimate. Given these problems, some of the \$12 million that the NPS had received was paid out to mining claimants. But according to one conservation group, much of the remainder was spent on "background work," and the purchasing process got bogged down. Despite those difficulties, the NPS by the spring of 1995 had purchased approximately 500 acres in the Kantishna area, which included 24 patented claims and one unpatented claim. At that time, the agency estimated that it was still interested in purchasing about 14 patented claims (of about 280 acres) and 4,300 acres of unpatented claims.

Both the NPS and Congress recognized that the sluggish process needed to be streamlined. In October 1994, the so-called Denali Task Force (see Chapter 9) reiterated the need to acquire "development rights and/or property" at Kantishna, but it also urged the NPS to "expedite the purchase of mining claims and patented land, including implementation of new acquisition methods."231 Pressure to improve the system also came from Sen. Frank Murkowski (R-Alaska), who introduced the Denali Mining Claims Act of 1994 on October 7. Murkowski, based on the results of a November 1993 public hearing, stated that "Government regulations and procedures" were preventing further mining at Kantishna. Recognizing that new mining was unlikely, however, his bill provided a three-step process to streamline claims purchase, one that "would provide a balanced approach to determining mineral and land values within a reasonable time frame." Given the impending adjournment of



Eighty years of mining disturbances to Eureka Creek were so extensive that the potential for ecosystem recovery through natural processes was significantly hindered. Consequently, restoration of Eureka Creek was placed at the top of park priorities. Included in this project was removal of abandoned mining camp equipment, as seen in this 1999 photograph taken at the mouth of Eureka Creek. Kenneth F. Karle Collection

the 103rd Congress, Murkowski knew that his bill had scant chances for passage. He submitted it, however, "to give interested parties an opportunity to comment on it" and because it could be re-introduced at any later date should administrative avenues fail.232

In response to Murkowski's bill, Assistant Interior ficials, in response, stated that all were "deficient close to being implemented. In 1997, the agency reported that it had purchased about 1,500 acres of Kantishna claims since the buyout program to sell (39 acres total), while another 44 acres

were being processed for purchase.²³⁴ During the 1995-97 period, the agency also compiled and completed its Front Country Development Concept Plan; the recommendations in both the draft and final plans called for the NPS "to acquire development rights and/or property to retain the existing character and approximate level of use at Kantishna" and to "implement administrative changes to expedite acquisition of Kantishna mining claims."235

Secretary George Frampton, together with NPS Regional Director Robert Barbee, assembled the Denali Mining Claim Acquisition Task Group, which was comprised of four agency staff, all located outside of Alaska. The group spent a week in mid-March 1995 meeting with Alaska agency staff, property owners, and mining-industry representatives, seeking ways to accelerate the acquisition of Kantishna-area mining claims. Goaded by the senator, who vowed that he would reintroduce his bill if necessary, the task group produced a June 1995 report that offered six separate recommendations. (The report declared that "there likely is not a single approach to acquisition that will be successful in all cases. Thus, it is recommended that several approaches be developed and implemented.")233 But because no immediate follow-up action took place, some miners made a renewed attempt to mine their properties. In 1996, for example, miners submitted eight mining plans of operations. NPS ofat some level," although one operating plan came had begun; in addition, it had received two offers



During stream channel and floodplain restoration work on lower Eureka Creek, shown above in 1999, about 500 feet of the creek received bank stabilization treatment, involving installation of rows of coconut-fiber biologs. These logs were staked and anchored at channel edges along the outside of the newly created stream bends. Kenneth F. Karle Collection



Reclamation activities were completed on lower Eureka Creek in September 1999. The mouth of Eureka Creek is seen here from the park road in 2007. Kenneth F. Karle Collection

In mid-1997, Congress moved to get the acquisitions program moving again. In early July 1997, Rep. Ralph Regula (R-Ohio) introduced the 1998 Interior Department Appropriations Act. Just two weeks later, this bill passed the House, and during this time, the bill had no Denali-specific provisions. While it was being considered by the Senate Appropriations Committee, however, Sen. Ted Stevens inserted a provision pertaining to the Kantishna buyout. This provision, which was in large part consistent with the recommendations of the 1995 acquisitions task force, stated that owners of either patented claims or valid unpatented claims could voluntarily agree to sell their claims to the U.S. government via an expedited process. Stevens's provision stated that for those who took part in this process, the U.S. government would assume ownership of all patented and unpatented claims. The government agreed to "pay just compensation" to all claim owners, payment of which "shall be in the amount of a negotiated settlement of the value of such property or the valuation of such property awarded by judgment." The provision, moreover, provided a specified, legally-proven avenue by which the government would determine "just compensation."236 As David Whitney from the Anchorage Daily News phrased it, the provision

> will create a process by which title to more than 3,000 acres of claims in the Kantishna Mining District could be transferred in a matter of weeks to the National Park Service. Claimants

will then head into federal court to seek compensation for the "legislative taking" of their property rights. Although the system is voluntary, the expectation is that most claim owners will opt for the speedier resolution of the Park Service's cumbersome administrative process for buying them out of the park.

The provision was well received by all parties. Interior Department and NPS staff praised the effort, a Sierra Club representative thanked Senator Stevens for "working in behalf of both the claimants and the public interest," and an attorney for one of the claimants stated that "this is about as good a resolution to this problem as one could come up with." ²³⁷

After its approval by the Appropriations Committee, the Interior Department funding bill was brought before the Senate, which passed it on September 18. A month later the bill emerged from a Senate-House conference, and President Clinton signed it into law on November 14. Stevens's provision, during this period, underwent several minor changes, but the core of his proposed program, known as Section 120, remained in the final bill. Its language called for Kantishnaarea claimholders to indicate their interest in the program by February 12, 1998. For participating claimholders, title to the claims would transfer to the federal government on that date. According to an NPS report,

There would then be an opportunity to reach negotiated settlements for payment for the claims taken, with either party being allowed to sue in the U.S. District Court in Alaska to determine the property's value. If suit is filed, the estimated compensation would promptly be deposited with the Court for the owner's availability, with the final amount established by negotiated settlement or court award.²³⁸

By the February 12 deadline, the owners of five of the seven large blocks of unpatented mining claims had consented to the legislative takings process. All told, these blocks comprised approximately 1,749 acres. Several holders of small-acreage claim groups joined the process as well, for a total of approximately 1,885 acres. By July 1999, more than two-thirds of this acreage had been acquired. (The remaining acreage was being held up due to the need for bankruptcy-court approval or because of unclear title.) Four other claim holders, who together held approximately 1,220 acres of claims, did not participate in the legislative takings process.²³⁹

Since that time, the agency has continued to work with various Kantishna-area claimholders, those who did not take part in the legislative takings process as well as those who did. Given the agency's overall goal of obtaining as much Kantishna-area acreage as possible, it has largely succeeded in that effort. As of mid-2007, less than one-half square mile of land formerly held by Kantishna-area mining claimants was held by private parties. Non-NPS mining interests included eleven parcels, totaling II3.73 acres, of patented lands, and one unpatented placer mining claim group (all or part of six claims) totaling II8.22 acres.²⁴⁰

Stampede Mine: Earl Pilgrim, the University of Alaska, and the U.S. Army

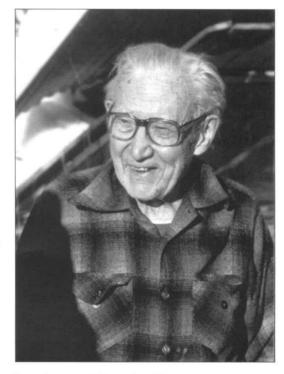
As noted above, Earl Pilgrim acquired a major antimony mine along Stampede Creek during the mid-1930s, and for a few years before the U.S. entered World War II, Stampede Mine was the territory's largest antimony producer. Transportation between the mine and the railroad, however, was slow and expensive, so Pilgrim made numerous attempts to obtain road access. Between 1942 and 1957, he tried at least four times to convince NPS officials to have a road built from the airstrip over to the Toklat River corridor and up to the park road. All of these attempts failed. In 1960, he was successful in convincing the new State of Alaska to fund the construction of a pioneer road between Lignite (on the Alaska Railroad) and his mine. But the route was laid

out so poorly that commercial traffic never traveled over the road corridor.

Pilgrim's mine produced antimony ore in 1964 and again in 1969-70. After that, however, the mine closed due to a drop in antimony values and rising labor costs. And as a 1977 report noted, Pilgrim "remained at the mine where he lived practically alone, occupying himself with small tasks.... This charming gentleman, aged 85, used his free time to become a friend of the country wildlife." The report further stated that except for the "not entirely installed" Humphrey spiral, the mill equipment was an estimated 40 years old. But "nevertheless, in spite of its aspect, the plant seems in good enough condition to be reopened after some transformations and repairs."²⁴¹

Pilgrim hoped, in 1977, "to receive some financial aid to reopen the mine." But in December 1978, less than a month after the mine became part of Denali National Monument, the former University of Alaska mining professor sold his interests in the mine and mill to Stampede Mine, Ltd., which was headed by Edwin K. Dole (who was an heir to the Dole pineapple fortune). The new owners tried but failed to reactivate the operation. As historian William Brown notes, this may have been because Pilgrim

was a genius at improvisation. One who knew him figured that he could fashion a moving part from a chunk of rock, if necessary. Machines, circuits, piping, and tools were interlocked with the personality of the man at the



Earl Pilgrim, age 87, was photographed outside his cabin at the Stampede Mine in the fall of 1979. Linda S. Barb Collection

Stampede Mine site. [After he sold out,] the new company sent in its bythe-book engineers; they simply could not make the place run. Without Earl Pilgrim's personal coaxing, all of these ingenious hookups and fabrications refused to mesh into the system that he had made.

In December 1979, therefore, the new firm donated its real estate interests to the NPS and its buildings, facilities, and mineral rights to the University of Alaska. Under the term of the donation, the NPS and the university promised to cooperatively use the site as a mining study area, where more efficient and environmentally sound mining methods might be investigated. Although the university's School of Mineral Industries played a key role in acquiring the site, it probably held only one summer field camp there, perhaps because university officials had a poor understanding of NPS laws and regulations. In 1984, the five-year-old agreement lapsed. 41

In March 1987, the two parties signed a new Memorandum of Understanding (MOU) outlining their various roles and responsibilities, and soon afterward, the NPS invited the U.S. Army's Explosive Ordnance Disposal Unit (from Fort Richardson) to the mine in order to remove a major explosives dump that had long been stored at the mill. The NPS and the Army, however, poorly communicated the specific procedures to be followed. On April 30 the Army officials, apparently miscalculating the size and capabilities of the accumulated explosives,

ignited a major explosion that severely damaged the mill. The blast demolished the nearby assay building and shed, and it seriously impacted a bunkhouse that was 250 feet away from the detonation site.²⁴⁴

The aftermath of the explosion was an uncomfortable time for both the NPS and the Army. Blasting officer Mike Shields, who has written the most comprehensive analysis of the event, stated that there was "a rapidly growing political fire, with lots of finger-pointing: the NPS said the Army screwed up; the Army said the NPS misinformed them all along the line; the press said the NPS purposely destroyed the place ... because they 'hate miners and mining'; UAF said the NPS purposely destroyed the place to prevent mining classes being held there; [and] letters to editors said the NPS ... should have known those Army kids are too young to know anything about explosives." Later, a more detailed investigation took place that was geared toward ensuring that such an accident would never be repeated. It ushered in a successful series of procedures that NPS and other agency specialists have employed at abandoned mining sites throughout the state.245

In early 1989, the NPS re-examined the site and suggested four preservation alternatives; it eventually opted for site cleanup, stabilization, and preservation planning. Later that year, agency staff conducted a site cleanup and emergency stabilization work, and three years later an NPS restoration specialist conducted a condition assessment of the mill building. The university,



The Stampede Mine ball mill, pictured above in 1983, was constructed in 1939. NPS Photo



This view of the Stampede Mine mill and lower camp was taken on May 19, 1987, shortly after the April 30 explosion that demolished the mill and the nearby assay building, and seriously impacted other structures at the site. Resource Management Slide File, NPS

during this period, based a geology field camp out of tents located at the mine's airstrip, but the Bureau of Land Management in 1990 declared UAF's unpatented mining claims in the area (seven lode claims and two placer claims) abandoned and void because it failed to file the necessary paperwork.²⁴⁶ The second NPS-university MOU expired in 1992 and was not renewed.

In February 1994, Pete Rutledge from the University of Alaska contacted NPS officials about two matters: agency requirements for conducting field programs at the Stampede Mine area and, alternatively, requirements for the NPS purchasing the university's mineral rights at the site. The agency responded to one of Rutledge's areas of interest by hiring an appraiser, who visited the university's 70.63-acre parcel during the summer of 1994.²⁴⁷

University mining-department officials, apparently angry that the NPS was not showing an interest in allowing continued use of the mine area, then sought help from U.S. Senator Frank Murkowski, who in July 1994 inserted a key paragraph into the Senate's 1995 Interior Department appropriations bill. That amendment called for the NPS to "enter into negotiations regarding a memorandum of understanding for the continued use of the Stampede Creek Mine property...". In addition, it provided \$250,000 to "undertake an assessment of damage and provide [Congress, by May 1, 1995] cost estimates for the reconstruction of those facilities and equipment which were damaged or destroyed as a result of the [1987] incident...". Finally, the paragraph

called on the NPS to work with UAF "to winterize equipment and materials" that had been "exposed to the environment as a result of the April 30, 1987 incident." Murkowski's insertion was successfully incorporated into the appropriation bill that passed the Senate. Similar language, however, was not included in the House version of that bill, and Murkowski's provision did not survive the House-Senate conference and was thus not signed into law.²⁴⁸

Despite the failure of Murkowski's amendment, the NPS sent staff to the site during the summer of 1995 to develop information necessary to work cooperatively with the university to further its educational goals. But Murkowski, who was the chairman of the Energy and Natural Resources in the newly Republican-dominated Senate, made a renewed attempt to insert the previous year's amendment. His amendment, in August 1995, was successfully incorporated into the Senate's 1996 Interior Department appropriation bill. That amendment, however, suffered the same fate as before; the House bill had no similar language, and the amendment was dropped during House-Senate conference negotiations.249

Two years later, Murkowski tried yet again to work out a deal that would assist UAF with its interests in the Stampede Mine site, and this time it worked – although in a far different way than he had envisioned in 1994 and 1995. In mid-September 1997, he inserted an amendment into the Interior Department's 1998 appropriations bill that paved the way for the NPS to purchase



What remains of the Stampede Mine mill structure is shown here in 2003, looking down on the ruins and Stampede Creek below the mill. NPS Photo

the university's interests in the Stampede Mine site. That amendment, which was approved on an 81-14 vote, also called on both the U.S. Army and the NPS to assist the university in establishing a new field school at the Golden Zone Mine. (This long-abandoned mine, which was 5 miles southwest of the old Dunkle Mine, was just outside of Denali National Park.) The Senate passed this bill on September 18, and with slight modifications it survived the conference committee and reached the desk of President Clinton, who signed the bill into law on November 14. Shortly thereafter, the NPS—following the law's provisions—began negotiating with UAF's School of Mineral Engineering on an equitable purchase price, and on September 22, 1998, the NPS bought the university's limited mineral interest in its 70.65-acre parcel. Since that time, field crews have hauled away university-owned improvements, rehabilitated various mine buildings, and surveyed the area for hazardous materials.250

Kantishna-area Reclamation Activities

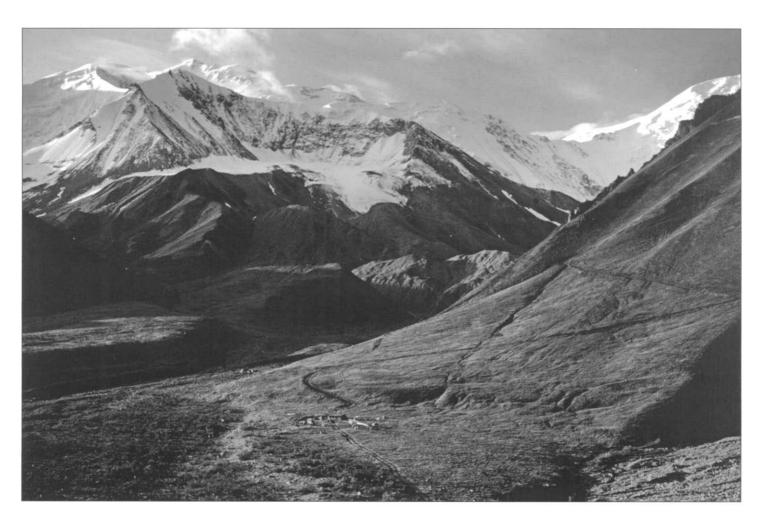
The park-specific mining regulations that the NPS authorized in the early 1930s, and implemented in the late 1940s, made no provisions for site reclamation. But the Mining in the Parks Act, which became law in September 1976, stated in its opening paragraphs that "all mining areas of the National Park System should be conducted so as to prevent or minimize damage to the environment and other resource values." Based on that concept, the accompanying regulations

(issued in interim form in November 1976 and in final form in January 1977) demanded that all active mining operators conform to specific reclamation requirements. The goal of mining reclamation was to provide

for the safe movement of native wildlife, the reestablishment of native vegetative communities, the normal flow of surface and reasonable flow of subsurface waters, the return of the area to a condition which does not jeopardize visitor safety or public use of the unit, and return of the area to a condition equivalent to its pristine beauty.

Reclamation was to be in accordance with methods set out in the approved mining plan of operations, and was expected to be completed within six months after the operator finished his work. In addition to reclaiming land that they were currently working, operators who held previously-issued special use permits were also expected to honor the terms of those permits as they related to reclamation requirements.²⁵¹

As noted above, the passage of the Mining in the Parks Act imposed a four-year moratorium on the disturbance of new lands for mineral exploration and development. In the "old park," one mining operation (at Slippery Creek) had operated commercially in 1974 and 1975, but in all likelihood it had been abandoned by Septem-



Reclamation of the Slippery Creek mine site focused on the Mineral Mountain mining road and cleanup of abandoned equipment and debris. NPS Photo

ber 1976, when President Ford signed the act into law. Two years later, NPS mining investigators declared the various "old park" claims invalid. By this time—and certainly by the 1980s, when various judges declared the claims null and void—the former mining operators were no longer in a position to conduct reclamation activities. The task of reclamation, therefore, fell to the NPS.

When the Kantishna area became part of Denali National Monument in 1978, most of the existing operators responded by filling out the requisite mining plans of operation and continued mining much as they had before (see above). Each of those plans had a specific reclamation component. NPS staff who investigated these operations, however, often noted that reclamation activities had been undertaken either poorly or not at all. Given the fact that the approval of new mining plans of operation was dependent upon how well existing rules were followed, operators during the early- to mid-1980s paid increasing attention to reclamation. ²⁵²

After Judge von der Heydt's decision and the mining shutdown that followed, NPS staff recognized that the agency had the sole responsibility to clean up the various mining properties under federal ownership. In 1987, therefore, park resource managers made their first steps in that direction when they did extensive restoration of the mine road and airstrip at Slippery Creek; they also removed a number of abandoned barrels at the former limestone claims along the West Fork of Windy Creek. That same year, park staff also completed Kantishna Hills studies related to revegetation, vegetation mapping, and sensitive plants.253 More large-scale reclamation work began in 1989 with the first year of the Glen Creek Riparian Ecosystem Recovery Study, a multi-year effort involving the reclamation, regrading, reseeding, and aquatic monitoring of a creek that had been subjected to years of excavation activities.254

During the same period in which the first reclamation activities were taking place, the agency was writing the so-called "mining EIS" which evaluated the cumulative effects of mining at three Alaska NPS units (see above). The draft EIS, dated February 1989, offered several alternatives. But "under each alternative," it noted, "the National Park Service would pursue a program for reclamation of unreclaimed, abandoned, and acquired mined lands owned in fee by the United States and located within the unit's boundaries." The final EIS, released in April

1990, also recommended the implementation of a reclamation program,²⁵⁵ The record of decision, signed in August 1990, provided specifics about the program:

Subject to the availability of funds, the NPS will pursue a reclamation program on disturbed mineral properties acquired by the United States, as well as on unreclaimed, abandoned, void, donated mining claims. Reclamation activities undertaken by the NPS will be guided by the same standards as applied to mining plans of operations. Reclamation site plans and environmental clearance documentation will be prepared prior to initiation of these activities. Where appropriate, the NPS will consider using any authority it may have to require the responsible party to do or assist with the necessary reclamation.256

As noted above, the district court lifted its 5½-year-old mining injunction in January 1991, and in April 1992 an appeals court opinion reaffirmed the district court's action. During this period, personnel in the regional office's Resource Assessment Branch wrote a draft reclamation plan for the area. And as the first applied element in that plan, the branch organized the Kantishna Debris Removal Project during the summer of 1993, which removed debris from seven former mining sites. That same summer, the branch organized a cleanup of drums, batteries, and hazardous fluids from those sites.²⁵⁷

Little reclamation work took place at Kantishna during the mid-1990s, but more recently the pace of cleanup has increased. In 1997, the NPS began a multi-year reclamation project on Slate Creek, and a year later, preliminary work began on Eureka Creek.²⁵⁸ In 2001, agency personnel completed a new cleanup plan. In 2002 and 2006, portions of Caribou Creek were restored, and from 2003 to 2005, park staff cleaned up portions of Glen Creek that had not been reclaimed prior to 1992. Years of work remain, however; as noted in a 2003 report, there were still approximately 1,500 acres of barren gravel tailings in riparian zones from placer and gold mines that had yet to be reclaimed.²⁵⁹

The Spruce 4 Controversy

Almost ten miles east of the Kantishna townsite, Spruce Creek is a five-mile-long tributary of upper Moose Creek. The creek witnessed historical (pre-World War II) activity, as evidenced by the ruins of a historic cabin. By the time the drainage was absorbed into Denali National Park, Northwest Explorations, Inc. owned eight unpatented mining claims (Spruce #1-#8), some of which were actively mined with bulldozers and front-end loaders. By 1981, the patenting process was well underway for two of those claims (Spruce #4 and Spruce #5), and by 1986 both claims had been patented.²⁶⁰

As noted above, the NPS in 1990 went on record as backing a policy of acquiring all patented and valid unpatented mining claims. The agency's front country development concept plan, implemented in February 1997, reiterated that



The bulldozer that was brought to Slippery Creek by the mine operators in 1969 was used during reclamation of the mine road on Mineral Mountain in 1987. The Slippery Creek cabin can be seen at the base of the mountain. Brad Ebel Collection



The Glen Creek drainage, first prospected during the 1905-06 gold rush, had mining activity on it until 1985. The photographer, Stephen Foster, described the scene in the above photo as "ground sluicing on Glen Creek" in 1919. Stephen Foster Collection, 69-92-596, University of Alaska Fairbanks Archive

policy, and during the early to mid-1990s the NPS purchased hundreds of acres of Kantishna Hills mining claims. The intent of that policy was to minimize mining-related environmental degradation and to limit Kantishna-area tourism development to existing facilities.

In June 1997, a private land transaction took place that had the potential to undermine the agency's goals. Jeff Barney and Eugene Desjarlais, partners in a Fairbanks hotel-development company, purchased the patented, 20-acre Spruce 4 parcel from Northwest Explorations, Inc. for an estimated \$500,000. Shortly thereafter, Barney announced his intent to construct a resort and cabin facilities on the parcel. And in conjunction with that development, he planned to improve a little-used mining route (one that crossed Moose Creek numerous times) and lengthen a nearby airstrip.²⁶¹

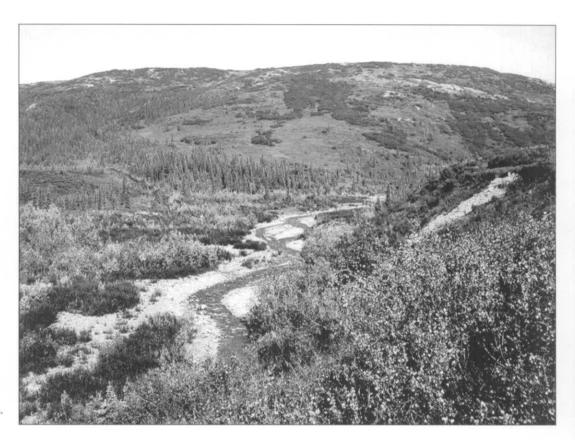
Environmentalists were outraged at the announced plans, for several reasons. First, both the 20-acre Spruce 4 parcel and portions of the planned road were located in de facto wilderness. Second, the proposed new tourism development would bring new tourists over a park road which was operating at the maximum limits that had been set forth in the 1986 general management plan. And third, the partners' bid to improve the existing road, while apparently legal according to Section 1110(b) of ANILCA, ran contrary to Congressional language which demanded that "the natural and other values"

of such lands" would not be threatened by new or improved access roads. Environmentalists, as a result, hoped to stop the project; as Chip Dennerlein of the National Parks and Conservation Association noted, "This parcel should be acquired as part of the park and not be developed. As a first step, we want to see NPS make every attempt to buy the property from the new owner." ²⁶³

The Park Service had little control over the owners' activities on their 20-acre parcel. The owners did, however, need the agency's consent to construct the proposed road improvements. Barney submitted a road-access application in January 1998, and two months later, the NPS responded that it would write an environmental impact statement to evaluate that application. The release of a draft EIS, originally promised in October 1998, was repeatedly delayed, and not until August 1999 was the document released to the public.²⁶⁴



A dramatic rise in the price of gold in 1972 led to a resurgence in placer mining throughout the Kantishna District. Glen Creek was intensively worked with mechanized equipment from 1973 to 1983. Shown above are the abandoned tailings piles and disturbed stream channel of lower Glen Creek. Kenneth F. Karle Collection



This 2005 view of lower Glen Creek shows the stream and floodplain restored to a near-natural configuration. Patches of willow and alder were planted on the floodplain. The return to natural conditions is enhanced by these restoration efforts Kenneth F. Karle Collection

The draft EIS specified five alternatives. The no-action alternative called for the applicants to sell their property to the NPS; an air-access-only alternative envisioned the construction of a new, 2,500-foot airstrip, which would be near the 20-acre parcel and linked to it by a short spur road; and three surface-access alternatives called for roads along either Moose Creek, Skyline Drive, or the North Bench of Moose Creek. The NPS, at the same time, announced that it would hold five public meetings on the plan: four would be in Alaska in August, and a fifth in Washington, DC in mid-September, not long before the October 6 conclusion of the public comment period. ²⁶⁵

When the agency released the draft EIS, it stated that it "has not selected a preferred alternative because it has not yet identified one." The public, however, tilted strongly against new road construction; as planner Bud Rice noted, the NPS received more than 400 comments even before the draft EIS was released, more than 95 percent of which were against the various surface-access alternatives. 266

Toward the end of the comment period, park superintendent Steve Martin flew to Washington, D.C., where he was scheduled to appear before the House and Senate appropriations committees, the latter headed by Sen. Ted Stevens. But that move, which was intended to explore the idea of providing sufficient funds to buy the Spruce 4 parcel, was chastised by the other two members of the Alaska Congressional delegation.

Both Don Young and Frank Murkowski, respectively, headed the House and Senate Energy and Natural Resources committees, and both were in favor of allowing the partners to construct the proposed, 30-cabin McKinley View Lodge. ²⁶⁷

During the fall of 1999, the agency proceeded to prepare the final EIS on Spruce Creek access. The document was originally scheduled to be completed by November, but in March 2000 the NPS asked for a delay (until late May) due to "extensive agency and public comment on the draft EIS and the need to conduct an economic feasibility study of the access alternatives." Soon afterward, Superintendent Martin returned to Washington for further negotiations, and in meetings with Jeff Barney and Sen. Murkowski, they worked out a mutually-agreeable purchase price, which was reportedly "about twice the appraised value."268 Given that turn of events, the applicants requested that the NPS not release the final EIS while they considered the NPS's offer to purchase the property. A month later the agency did complete its final EIS (which recommended that the owners "sell all or most of the property to the NPS"). But given the applicants' request, the final EIS remained as an internal review draft and was not published or distributed.269

Senator Murkowski, one of the members of the three-man team that had worked out the agreement during the spring of 2000, recognized that Congress retained the right to review all government purchases that were above the appraised

value. And because either he or the partners had second thoughts about that agreement, Murkowski opted to prevent the NPS from going ahead with the purchase.270 The senator held up any further actions on the matter for more than 18 months. But in early December 2001, Congress finally authorized the NPS to purchase the property. Early the following February, agency officials reported that "purchase of the 20-acre Spruce #4 patented claim will soon close," and by the end of the month the transaction was complete.271 It called for the partners to sell 18 of the 20 acres to the federal government; the remainder allowed both Barney and Desjarlais to retain one-acre parcels for the cabins that they had recently constructed, with the caveat that they would be only for their "private, personal use."272

During the negotiations that led to the land sale, the partners "requested access over existing mining access trails and use of the existing Glen Creek airstrip." NPS officials recognized that what was being requested was largely a continuation of existing use patterns; the results of that request, therefore, did not constitute an action with potentially significant impacts. As a result, the agency announced that it was terminating its EIS; instead, it planned to issue an environmental assessment. The agency therefore issued an environmental assessment related to the Spruce Creek access question in April 2002. Given the agreement between the partners and NPS, the NPS's proposed alternative called for an access route that was largely similar to what the partners had proposed in early 1998; it was identical, in fact, except that two-thirds of a mile of new road would be built near Spruce Creek in order to avoid in-stream travel. The partners would be allowed to use the existing Glen Creek airstrip. Use of the 9.7-mile Moose Creek-Spruce Creek route would be allowed as well; the number of these trips, however, "would be limited to protect fish habitat and recreational uses in the area."273 The release of the document, announced May 15, started a 30-day public comment period, after which the agency implemented the document's recommendations.274

Notes - Chapter 14

- ¹ Tom Walker, Kantishna: Mushers, Miners, Mountaineers (Missoula, Pictorial Histories, 2005), 9, 11.
- ² Ibid., 27-32; Jane G. Haigh, Searching for Fannie Quigley: A Wilderness Life in the Shadow of Mount McKinley (Athens, Ohio, Swallow Press, 2007), 53-55, 58.
- ³ Walker, Kantishna, 49-50, 55-58; Brown, Denali: Symbol of the Alaskan Wild, 81; Sheldon, The Wilderness of Denali (New York, Charles Scribner's, 1930), 6-8, 87-90.
- ⁴ Brown, *Denali*, 86; Haigh, *Searching for Fannie Quigley*, 61-62, 72-75; Walker, *Kantishna*, 86-87. Sheldon—and many others as well—spoke of "Fannie Quigley" in 1907 if not earlier, but Joe and Fannie did not marry until February 2, 1918.
- ⁵ Walker, Kantishna, 83, 86, 94, 99-100, 102-03; Brown, Denali, 68, 74.
- ⁶ Charles Caldwell Hawley, *Wesley Earl Dunkle: Alaska's Flying Miner* (Boulder, University Press of Colorado, 2003), 146; Stephen R. Capps, "Geology and Mineral Resources of the Region Traversed by the Alaska Railroad," in *Mineral Resources of Alaska: Report on Progress of Investigations in 1922*, USGS Bulletin 755 (Washington, GPO, 1924), 144; Stephen R. Capps, *The Kantishna Region, Alaska,* USGS Bulletin 687 (Washington, GPO, 1919), 113.
- ⁷ Gail E. H. Evans, From Myth to Reality: Travel Experiences and Landscape Perceptions in the Shadow of Mount McKinley, Alaska, 1876-1938, unpublished M.A. Thesis, U.C. Santa Barbara, February 1987, 76-77.
 ⁸ Sheldon to Mather, December 15, 1915, in John M. Kauffmann, Mount McKinley National Park, Alaska; A History of its Establishment and Revision of its Boundaries (Washington, D.C., NPS, July 1954), 7-8.
- ⁹ 64th Congress, 1st Session; H.R. 14775 (April 18, 1916) and S. 5716 (April 22, 1916); Kauffmann, *Mount McKinley National Park*, 8-10.
- ¹⁰ Congressional Record 64 (February 19, 1917), 3628, 3630; 64th Congress, Public Law 353 (February 26, 1917); Brown, *Denali*, 91-92.
- ¹¹ Lary M. Dilsaver, ed., America's National Park System: the Critical Documents (Lanham, Md., Rowman and Littlefield, 1994), 9, 28-29, 36; Richard Sellars, Preserving Nature in the National Parks; a History (New Haven, Yale, 1997), 25; Theodore Catton, Wonderland: An Administrative History of Mount Rainier National Park (Seattle, NPS, May 1996), 698-99, 701.
- ¹² Frank Norris, *Alaska Subsistence; a National Park Service Management History* (Anchorage, NPS, 2002), 18; NPS, "The Pioneer Yosemite History Center" (pamphlet), at http://www.nps.gov/yose/planyourvisit/upload/pyhc.pdf ¹³ Dilsaver, ed., *America's National Park System*, 46, 50.
- ¹⁴ Dilsaver, ed., *America's National Park System*, 28; 51st Congress, *Chapter 1263* (California Forest Reservation Act, October 1, 1890, sections 2 and 3 (*U.S. Statutes at Large* 26 [1890], 650); Lary Dilsaver and William C. Tweed, *Challenge of the Big Trees: A Resource History of Sequoia and Kings Canyon National Parks* (Three Rivers, Calif., Sequoia Natural History Association, 1990), chapter 4; Sellars, *Preserving Nature in the National Parks*, 10.
- ¹⁵ Catton, Wonderland, 143-54, 207-08, 699-700; Sellars, Preserving Nature in the National Parks, 23. ¹⁶ Harlan D. Unrau and Stephen R. Mark, Crater Lake: Administrative History (Seattle, NPS, 1991), Chapter 4; 71st Congress, Public Law 574, January 26, 1931 (U.S. Statutes at Large 46 [1931], 1043).
- Dilsaver, ed., America's National Park System, 46, 48; Sellars, Preserving Nature in the National Parks, 60.
 NPS, "Parkland Protection Hailed as Park Mining Laws Repealed" (News Release), October 8, 1976, in "K3415 Press Releases Department, 1976-77" folder, Box 1, Collection 00495, DENA Archives; D. E. Lee to [Joseph E.] Taylor, November 14, 1939, in File 609-01 (Mining Claims), MOMC, CCF, RG 79, NARA SB; Public Law No. 574, 1043; U.S. Dept. of the Interior, Environmental Consequences of Mineral Extraction: Glacier Bay National Monument and Mount McKinley National Park and Discussion of Alternatives for Acquisition of Mining Claims and/or Boundary Modifications to Reduce Possible Acquisition Costs, Glacier Bay National Monument, Report to the Congress of the United States Prepared in Partial Compliance with Public Law 94-429, January 1979, 1; Theodore Catton, Land Reborn: A History of Administration and Visitor Use in Glacier Bay National Park and Preserve (Anchorage, NPS, 1995), 63-64.
- ¹⁹ Ann Bischoff Kain, *Cultural Resource Management, Denali National Park and Preserve, Alaska* (unpublished M.A. thesis, Antioch University, March 2001), 108-11; SMR, August 1921, 2; July 1924, 5; Walker, *Kantishna*, 107; Brown, *Denali*, 109-10.
- ²⁰ Thomas K. Bundtzen, "A History of Mining in the Kantishna Hills," *Alaska Journal* 8 (Spring 1978), 156. Harry Karstens, in a January 10, 1922 letter to Arno Cammerer (located in DENA Archives) stated that the "Mount McKinley Mining Co." had a "proposed ditch from McKinley River in the Park to the Kantishna District."
- ²¹ SMR, September 1921, 5; April 1923, 5; Capps, "Geology and Mineral Resources of the Region Traversed by the Alaska Railroad," 143-44; Walker, *Kantishna*, 203.
- ²² SMR, April 1923, 5; September 1923, 2, 5; May 1924, 5; October 1924, 8.
- ²³ SMR, April 1923, 3; September 1923, 5; December 1924, 8; Hawley, Wesley Earl Dunkle, 88-90.

- ²⁴ SMR, April 1923, 5; September 1923, 5; December 1924, 8.
- ²⁵ SMR, January 1922, 3, 4; February 1922, 3; December 1922, 3; February 1923, 6.
- ²⁶ SMR, April 1922, 2, 3, 7; February 1923, 6; September 1923, 2.
- ²⁷ SMR, October 1922, 6; January 1926, 3; February 1926, 1, 5.
- 28 SMR, March 1926, 1.
- ²⁹ SMR, January 1926, 3.
- ³⁰ 71st Congress, U.S. Senate Report 545 (April 21, 1930); Congressional Record 72 (May 7, 1930), 8522; 71st Congress, Public Law No. 574; U.S. Statutes at Large 46 (1931), p. 1043-44. The term "Surface Use Act" was noted years later; see Herbert Maier to Director NPS, November 22, 1948, in File 609-01 ("Mining Claims"), MOMC, CCF, RG 79, NARA SB.
- ³¹ Kain, Cultural Resource Management, 109, 112; Brown, Denali, 110; SMR, August 1933, 5.
- 32 SMR, October 1931, 2; August 1933, 2, 4.
- ³³ Jane Bryant email, November 24, 2003; Jane Bryant interview, August 2, 2007; SMR, July 1934, 6; September 1937, 5.
- ³⁴ In October 1939, an official with the Red Top Mining Company (above Eureka Creek), noting that there were "frequent outcroppings of coal along the north side of the park," requested permission "to prospect for coal in the park." But a month later, the NPS's chief attorney (in Washington) stated that because of provisions in the Mineral Leasing Act, enacted on February 25, 1920 (66th Congress, Public Law No. 146, noted in *U.S. Statutes at Large* 41 [1920], 437-38, Secs. 1-2), "coal mining in the park is not permissible under existing federal law." George A. Moskey to Supt. MOMC, November 8, 1939, in File 609-01 (Mining Claims), MOMC, CCF, RG 79, NARA SB. Also see SMR, September 1940, 2.
- 35 Kain, Cultural Resource Management, 113; SMR, March 1934, 3; September 1937, 2.
- ³⁶ SMR, September 1933, 4; October 1933, 1; *Anchorage Daily Times*, October 9, 1933, 4; Haigh, *Searching for Fannie Quigley*, 141-42.
- ³⁷ Kain, Cultural Resource Management, 113-14; Brown, Denali, 110-11; Haigh, Searching for Fannie Quigley, 143-45.
- ³⁸ SMR, April 1937, 4; August 1937, 3; Hawley, *Wesley Earl Dunkle*, 88, 125-28, 145-46. A May 24, 1971 report by the NPS's Alaska Group, entitled *Prospecting and Mining at Mount McKinley National Park and Glacier Bay National Monument* (p. 3) noted that "In the 1930s [presumably in 1937] a tractor was driven up the Slippery Creek drainage leaving a trail that can still be located in part." Remnants from the period included a log cabin, an airstrip, a road up to the two adits, and scattered refuse.
- ³⁹ SMR, September 1939, 6.
- ⁴⁰ Federal Register 1 (June 27, 1936), 677; Federal Register 5 (April 29, 1940), 1654.
- ⁴¹ Been to the Director, May 17, 1940, in Folder 208 (Rules and Regulations), MOMC, Entry 7, RG 79, NARA CP. ⁴² Federal Register 6 (March 26, 1941), 1631-32.
- ⁴³ Hillory A. Tolson to Supt. MOMC, May 5, 1941; Glenn Carrington to Been, June 1, 1941; D.R. Gustafson to Anthony Dimond, June 1, 1941; Been to Director NPS, June 4, 1941, all in Folder 208 (Rules and Regulations), noted above; SMR, March 1942, 2. The level of fees levied to these operators is not known, but based on similar correspondence from 1950, it was probably \$20 per year or less.
- ⁴⁴ Ann Kain, "Going for the Gold in Kantishna," *Alaska Park Science*, December 2006, 41. Congress waived the assessment requirements in 1943 and did not reinstate them until 1950. Public Law 78-47, noted in *U.S. Statutes at Large* 57 (May 3, 1943), 74; Public Law 81-107, noted in *U.S. Statutes at Large* 63 (June 17, 1949), 200-01; SMR, March 1950, 4.
- ⁴⁵ Kain, *Cultural Resource Management*, 114-15; SMR, June 1942, 2; September 1942, 2; March 1943, 1; July 1943, 1-2; October 1943, 1; May 1944, 1; July 1944, 1.
- ⁴⁶ SMR, March 1941, 4; September 1942, 2; March 1943, 1; July 1943, 1-2; August 1944, 1; September 1945, 1.
 ⁴⁷ Fairbanks Daily News-Miner, September 2, 1941, 8; Haigh, Searching for Fannie Quigley, 148-52; SMR, August 1945, 1; Pearson, My Life of High Adventure, 49-52. Longtime park employee John Rumohr, who
- August 1945, 1; Pearson, My Life of High Adventure, 49-52. Longtime park employee John Rumohr, who knew Busia over a number of years, pronounced his name BOO-see-a, while Bill Brown (Denali, Symbol of the Alaskan Wild, 113) states that boo-SHAY was correct.
- ⁴⁸ Pearson, *My Life of High Adventure*, 53-61; SMR, September 1943, 2; April 1944, 2; August 1944, 3; April 1947, 2; Brown, *Denali*, 113-15; Harry Karstens to Arno Cammerer, January 10, 1922, in DENA Archives.
 ⁴⁹ Rolfe Buzzell, *Overview of Mining in the Kantishna District, 1903-1968*, unpub. mss., January 9, 1989, Logan Hovis (NPS) files, p. 21; Alaska Department of Natural Resources, *Report of the Division of Mines and*
- ⁵⁰ Kain, *Cultural Resource Management*, 115; SMR, 1957, 3. Busia lived in a cabin along Moose Creek and trapped in the area; he was one of the few year-round residents during the postwar period.

Minerals for the Year, various annual issues, 1959 to 1969.

⁵¹ Kain, *Cultural Resource Management*, 115-16; SMR, May 1950, 3; SMR, August 1966, 4; Territory of Alaska, *Report of the Commissioner of Mines to the Governor*, various biennial issues, 1946 through 1958; Alaska Dept. of Natural Resources, *Report of the Division of Mines and Minerals for the Year*, 1959 to 1969; Buzzell,

Overview of Mining, 18-20. Thomas Bundtzen, in his "A History of Mining in the Kantishna Hills," p. 157, notes that Crooked Creek mining continued until 1965. As noted in Chapter 7, the Glen Creek Development Company built a 1,300-foot airstrip near its workings and also lengthened the Kantishna airstrip to 1,750 feet. SMR, May 1949, 2; November 1949, 2; May 1950, 3; August 1950, 4; Anchorage Daily Times, December 12, 1975, 3; NPS, "New Mining Regulations Adopted by Park Service" (DOI News Release), January 26, 1977, in "K3415 Press Releases – Departmental, 1976-77" file, Box 1, Collection 00495, DENA Archives.

⁵³ SMR, July 1954, 4; NPS Alaska Group, *Prospecting and Mining*, 3; Bureau of Land Management, "Grant" Mining Claim File (FF034273), NARA Anchorage. Jane Bryant (June 22, 2007 interview) noted that Herning's "old road" forked south from today's park road one-quarter mile east of Eielson Visitor Center. An Alaska Road Commission vehicle had first used the route in September 1932 to access the Park Service's Copper Mountain relief cabin, which had been built in 1928. See Photo 88-12-219, Edmunds Collection, AMHA.
⁵⁴ SMR, June 1950, 3; Grant Pearson to Supt., Mount Rainier NP, July 11, 1950, in Folder 901 (Permits), MOMC, CCF, RG 79, NARA SB.

⁵⁵ See Supt. MOMC to RD/R4, April 8, 1952, in "Special Use Permits" file, Folder 99, Series 1, DARC, DENA Archives. The cessation of road-use fees, in all probability, was a response to two agency-wide "delegations of authority" orders that shifted authority for fee assessment from the Interior Secretary to the NPS Director (in June 1951) and then to regional and park officials (in May 1952). Park superintendents, beginning in 1940, had complained that levying fees was unnecessary because Kantishna miners, who were few in number, caused few resource-related problems along the park road. It is likely, therefore, that Supt. Pearson took advantage of the flexibility provided by these orders to eliminate the road use fees. Federal Register 16 (June 19, 1951), 5847, Sec. 24; Federal Register 17 (May 23, 1952), 4721, Sec. 20.

- ⁵⁶ SMR, October 1947, 3; March 1948, 4; March 1951, 4; September 1953, 1; January 1955, 3; April 1955, 4; February 1956, 2; September 1956, 3.
- ⁵⁷ SMR, August 1957, 3.
- ⁵⁸ Although the park's mining regulations were considered "unnecessary" after September 1976, they remained on the books until December 1980. See *Federal Register* 45 (May 22, 1980), 34759; *Federal Register* 45 (November 25, 1980), 78119-20.
- ⁵⁹ SMR, May 1957, 4; June 1957, 4; Federal Register 22 (June 4, 1957), 3896.
- ⁶⁰ Fairbanks Daily News-Miner, May 12, 1958, 3; Public Land Order 1667, noted in Federal Register 23 (June 28, 1958), 4811.
- ⁶¹ As Donald H. White notes in *Antimony Deposits of the Stampede Creek Area, Kantishna District, Alaska*, USGS Bulletin 936-N (Washington, GPO, 1942), p. 332, "The date of the discovery of the deposit is not known. The first active mining was done in 1915, in response to the very high prices prevailing for antimony at that time. About 150 tons of ore was mined, probably in 1915, but no shipments were made."
- ⁶² Brown, *Denali*, 192; Pilgrim to Ike P. Taylor, November 27, 1942, in File 610 ("Private Lands"), MOMC, CCF, RG 79, NARA SB; Bundtzen, "A History of Mining in the Kantishna Hills," 159. In early 1937, the ARC provided materials for the construction of three bridges along the Stampede-Lignite route to allow summer ore hauls. The bridges soon caved in, however.
- ⁶³ Earl Pilgrim to Morris P. Kirk, June 10, 1937, and Kirk to Pilgrim, June 23, 1937, both in Box 6, Folder 15, Box 6, Accession 318 (Earl Pilgrim papers), DENA Archives; G. O. Kempton to Earl Pilgrim, May 12, 1952, in "Stampede Airport" folder, FAA Airports Division historical files, Anchorage; Brown, A History, 207; White, Antimony Deposits of the Stampede Creek Area, 332-34; Bundtzen, "A History of Mining in the Kantishna Hills," 159.
- 64 Brown, Denali, 192.
- ⁶⁵ Supt. MOMC to Director, December 10, 1942; Newton Drury to RD/R4, January 6, 1943; both in File 610 ("Private Lands"), noted above; SMR, December 1942, 2; Brown, *Denali*, 193.
- ⁶⁶ Brown, *Denali*, 193; SMR, April 1947, 3; May 1947, 3; January 1948, 2; May 1948, 2; September 1948, 2; William E. Warne to Mr. Sherman, June 18, 1948, in "Special Use Permits" file, Box 99, Series 1, DARC, DENA Archives.
- ⁶⁷ Brown, *Denali*, 193; SMR, July 1954, 1; SMR, March 1955, 1, 3.
- 68 Territory of Alaska, Report of the Commissioner of Mines to the Governor, 1956 issue, pp. 48, 92.
- ⁶⁹ Brown, *Denali*, 193-94; SMR, April 1958, 2.
- ⁷⁰ Fairbanks Daily News-Miner, March 24, 1961, 3; May 27, 1961, 3; June 20, 1961, 1; August 19, 1963, 4; Eugene Therriault, "A Road to Stampede," unpub. mss., 8-13, Item 869, DENA RML.
- ⁷¹ Brown, *Denali*, 194; Bill Brown to author, email, November 21, 2005; Natural Resource Consultants, "Stampede Mine-Alaska, Report of Visit," August 1977, in Logan Hovis, comp., "Stampede Mine and Mill Process Notes," unpub. mss., Hovis files. In 1988, Celia Hunter stated that Pilgrim "used up the entire pioneer access road appropriation for one year" to construct this route (see Chapter 9).
- ⁷² William E. Wrather (Director, USGS) to O.A. Tomlinson, September 10, 1947, in File 609.01 ("Mining Part I"), MOMC, CCF, RG 79, NARA SB. According to the *Anchorage Daily News*, November 12, 1948, p. 4, "in 1931,

- G. A. Waring of the Geological Survey sampled the limestone outcroppings along the bony ridge near Little Windy Creek, between Cantwell and Windy."
- ⁷³ Frank T. Been to RD/R4, in File 609.01 ("Mining Part I"), MOMC, CCF, RG 79, NARA SB.
- ⁷⁴ *Ibid.*; William E. Wrather (Director, USGS) to O.A. Tomlinson, September 10, 1947, in File 609.01, see above. The study, by Gerald A. Waring, was published as *Nonmetalliferous Deposits in the Alaska Railroad Belt*, Circular 18 (Washington, GPO, 1947), 10 pp.
- 75 Claus-M. Naske, "Alaska in the Mix," Alaska History 16 (Spring-Fall 2001), 17-33.
- ⁷⁶ Been to RD/R4, August 16, 1948, and Arthur E. Beaudin to J.A. Krug, August 25, 1948; both in File 609.01 ("Mining Part I"), MOMC, CCF, RG 79, NARA S8; SMR, May 1948, 4; July 1948, 1; August 1948, 1, 3.
- ⁷⁷ Alfred C. Kuehl to RD/R4, August 14, 1948, and Been to RD/R4, September 7, 1948; both in File 609.01, see above; *Anchorage Daily Times*, September 7, 1948, 1. As noted in *Jessen's Weekly*, October 29, 1948, p. 2, the Bureau was later authorized to drill "six holes, two inches in diameter and five hundred feet long."
- ⁷⁸ Drury to Been, telegram, September 7, 1948, Been to RD/R4, October 14, 1948, Kuehl to RD/R4, October 14, 1948, and Been to RD/R4, October 29, 1948, all in File 609-01, see above; *Anchorage Daily Times*, September 8, 1948, 2; *Anchorage Daily Times*, September 10, 1948, 2. Supt. Been, along with H. H. Hilscher of Fairbanks, felt that there were procedural errors with how the claims were filed, and Been kept other NPS officials apprised of these technicalities. But because the claims were never developed, these purported errors remained unresolved. Naske, "Alaska in the Mix." 20.
- ⁷⁹ Krug to Robert Day, September 15, 1948, in File 609-01, see above.
- ⁸⁰ John C. Reed, etc. to Chairman, Alaska Field Committee, October 8, 1948, and Kuehl to RD/R4, October 14, 1948; both in File 609-01, see above.
- ⁸¹ Warne to Director NPS, October 18, 1948, in File 208.43 ("Mining"), MOMC, Entry 7, RG 79, NARA CP; Kadow to Warne, November 12, 1948, Herbert Maier to Director NPS, November 22, 1948, and Drury to Secretary Krug, November 26, 1948; all in File 609-01, see above. The Glacier Bay act was Public Law 74-750, which became law on June 22, 1936; see *U.S. Statutes at Large* 49 (1936), p. 1817.
- ⁸² Been to RD/R4, December 10, 1948; Maier to Director NPS, December 22, 1948; Drury to Secretary Krug, February 7, 1949; all in File 208.43 ("Mining"), see above; Federal Register 14 (March 3, 1949), 955-57.
- ⁸³ As noted in the *Anchorage Daily News*, November 12, 1948, p. 4, plans at this time called for the cement plant to be built in the park just east of the railroad at mile 323. Also see Been to Director NPS, September 7, 1948, and Kuehl to RD/R4, October 14, 1948, both in File 609-01, see above.
- 84 Kuehl to RD/R4, October 14, 1948, in File 609-01, see above.
- ⁸⁵ Marion Clawson (Director, 8LM) to Secretary Krug, December 10, 1948; Public Land Order 538, in *Federal Register* 13 (December 18, 1948), 7866.
- ⁸⁶ Krug to Robert Day, September 15, 1948, and Tolson to RD/R4, September 22, 1948; both in File 609.01, see above.
- ⁸⁷ Been to RD/R4, October 29, 1948; Drury to Warne, November 26, 1948; both in File 602 ("Boundaries General"), MOMC, CCF, RG 79, NARA SB.
- 88 Drury to RD/R4, December 23, 1948; Been to RD/R4, January 12, 1949; Tomlinson to Director NPS, January 25, 1949; Charles Richey to Hillory Tolson, May 18, 1949; all in File 609-01, see above.
- 89 Naske, "Alaska in the Mix." 21-22.
- 90 Ibid.. 23.
- ⁹¹ *Ibid.*, 23-25, 28; William Warne to Secretary Oscar Chapman, January 19, 1950, in File 609-01, MOMC, Entry 7, RG 79, NARA CP.
- 92 SMR, July 1950, 5, 6; August 1950, 2, 3; September 1950, 5; October 1950, 3.
- ⁹³ John E. Doerr to Director NPS, November 9, 1948, in File 609-01, MOMC, Entry 7, RG 79, NARA CP. The year's findings were published in an open-file report by Robert M. Moxham, Walter S. West, and Arthur E. Nelson entitled *Cement Raw Materials Available to the Windy Creek Area, Alaska* (USGS, 1951). Much of this data was later incorporated into Robert M. Moxham, Richard A. Eckhart, and Edward H. Cobb, *Geology and Cement Raw Materials of the Windy Creek Area, Alaska* (USGS Bulletin 1039-D), 1959.
- ⁹⁴ Acting Director, BLM to Files, November 9, 1950; Thomas B. Nolan and Newton B. Drury to Director, Bureau of Land Management, November 29, 1950; both in File 609-01, MOMC, Entry 7, RG 79, NARA CP; Public Land Order 697, in *Federal Register* 16 (February 8, 1951), 1184, 1203.
- ⁹⁵ Naske notes, perhaps with tongue in cheek ("Alaska in the Mix," p. 17) that "the story of the United States effort to make concrete in Alaska proves once again that on the Last Frontier federal economic development programs never die, they just require more funding."

 ⁹⁶ Ibid., 28-31.
- ⁹⁷ SMR, July 1956, 1, 3; Duane D. Jacobs to Mark B. Ringstad, November 20, 1958, in File L3023 ("Land Use Mining, 1953-60"), in Box 9, Accession 9NNS 79 90 005, NARA SB. NPS regulations, in place since March 1947 (see Chapter 13), limited aircraft landings in the park to the McKinley Park airstrip and the surface of Wonder Lake.

- 98 This act was Public Law 84-830, noted in *U.S. Statutes at Large* 70 (1956), pp. 709-14.
- ⁹⁹ Jacobs to Ringstad, November 20, 1958; Charles E. Tulin to Jacobs, December 6, 1958; Jacobs to Tulin, December 17, 1958; all in File L3023, Box 9, see above; SMR, September 1959, 5; Public Law 84-830, Sec. 202(a) and Sec. 202(b); Public Land Order 1646, in *Federal Register* 23 (June 4, 1958), 3853; "Alaska Limestone Corporation (1948-1986)" folder, in Box 35, Denali Administrative Records Collection (DARC), DENA Archives. Why the Alaska Limestone Corporation attorney, in his December 6, 1958 letter, referred to "restaked" claims is borne out by an April 1, 1979 *Anchorage Daily Times* article (p. F-1) stating that "in 1957, [the firm] filed 14 claims on the west bank of Windy Creek about 14 miles southwest of Cantwell."
- 100 Samuel A. King to RD/R4, April 21, 1960; King to RD/R4, October 20, 1960; both in File L3023, see above.
- ¹⁰¹ King to RD/R4, June 23, 1960; Tulin to King, July 1, 1960; Singer to RD/R4, July 5, 1960; King to RD/R4, July 6, 1960; John 8. Wosky to Supt. MOMC, July 11, 1960; all in File L3023, see above.
- ¹⁰² Anchorage Daily Times, October 11, 1960, 1; Samuel A. King to RD/R4, October 20, 1960; King to RD/R4, November 10, 1960; Rita Singer to RD/R4, November 23, 1960; all in File L3023, see above.
- ¹⁰³ Fairbanks Daily News-Miner, July 31, 1963, 1; SMR, August 1963, 2; SMR, September 1963, 5; Anchorage Daily Times, October 5, 1963, 2; Anchorage Daily Times, October 18, 1963, 1.
- ¹⁰⁴ Henry Roloff to Anthony Wayne Smith, August 30, 1963; Smith to Alaska Department of Economic Development and Planning, August 19, 1963; both in File 882 (1959-66), Series 41, RG 01, Alaska State Archives.
- ¹⁰⁵ Fairbanks Daily News-Miner, issues of November 14, 1963, 4; December 27, 1963, 4; and June 25, 1964, 1. Also see SMR, January 1964, 3; SMR, June 1964, 5; SMR, July 1964, 7; SMR, August 1964, 5.
- ¹⁰⁶ NPS, Alaska Group, *Prospecting and Mining*, 3; Steve Buskirk to Chief Ranger, MOMC, July 11, 1975, in Catalog 9169, DENA Archives.
- ¹⁰⁷ Pearson to RD/R4, August 4, 1952, in File 609.01 ("Mining Claims"), MOMC, CCF, RG 79, NARA SB.
 ¹⁰⁸ Pearson to RD/R4, August 4, 1952; Lawrence C. Merriam to Director NPS, telegram, August 14, 1952; George L. Collins to Pearson, August 15, 1952; Pearson to RD/R4, August 15, 1952; all in File 609.01, see
- ¹⁰⁹ Federal Register 17 (May 28, 1952), 4831, 4833; Federal Register 17 (August 13, 1952), 7368-69; Wirth to RD/R4, telegram, August 18, 1952, in File 616 ("McKinley Land Withdrawals"), MOMC, CCF, RG 79, NARA SB. ¹¹⁰ Lawrence C. Merriam to Manager, Fairbanks Land Office, BLM, August 20, 1952, in File 616 ("Land Withdrawals and Restorations"), MOMC, CCF, RG 79, NARA SB. Merriam, in his letter to the BLM, made no
- mention of the mining threat; instead, he stated that it was "essential that said lands be reserved for [NPS] development. ... [T]he area described above is the minimum required for the proper development of this important administrative site and public use area near the main entrance to the park."
- 111 Frank T. Hirst to RD/R4, September 10, 1952, in File 609.01, noted above. By September 12, the "hearsay" had been proven true; see Hirst to RD/R4, September 12, same file.
- ¹¹² B. F. Manbey to Great Northern Stone Corporation, September 11, 1952, in File 609.01, noted above. ¹¹³ As Acting Superintendent Frank Hirst noted, "The road now exists. While it is not a road in the literal sense, but is merely the removal of brush to allow passage of a truck, it is still regrettable." Hirst to RD/R4, September 12, 1952; B. F. Manbey to Supt. MOMC, September 11, 1952; Manbey to Supt. MOMC, telegram, September 11, 1952; all in File 609.01, see above.
- ¹¹⁴ Frank T. Hirst to RD/R4, September 12, 1952; Lawrence C. Merriam to Manager, Fairbanks Land Office, September 16, 1952; Merriam to Director NPS, September 16, 1952; all in File 616, noted above. Again, as a month earlier, agency officials told the BLM that the withdrawal was needed "for administrative and public use development and for the protection of the scenic highway" (which, indeed, was true) in order to conform to language in regulations that had been implemented on May 28, 1952 and August 13, 1952 (see above).
- ¹¹⁵ Hirst to RD/R4, October 6, 1952; Lawrence C. Merriam to Director NPS, October 14, 1952; E. L. Arnell to Grant Pearson. April 3, 1953; all in File 609.01, see above.
- ¹¹⁶ Conrad Wirth to RD/R4, April 1, 1953, in File L2423 ("Encroachments-Mining") in Box 9, Accession 9NNS 79 90 005, NARA SB.
- ¹¹⁷ Grant Pearson to RD/R4, February 16, 1953; Herbert Maier to Director NPS, February 19, 1953; Pearson to RD/R4, April 6, 1953; all in File 616, noted above.
- ¹¹⁸ Herbert Maier to Supt. MOMC, April 22, 1953, in File 609.01, see above; Maier to Director NPS, February 19, 1953, in File 616, see above; Wirth to RD/R4, April 1, 1953, in File L2423, see above.
- ¹¹⁹ SMR, July 1953, 3; SMR, July 1954, 4; SMR, June 1955, 5; "Great Northern Stone Corporation (1935-1957)" folder, Box 35, DARC, DENA Archives.
- 120 SMR, June 1955, 5; SMR, April 1957, 4; "Great Northern Stone Corporation" folder, Box 35, see above.
 121 SMR, May 1957; 4; June 1957, 4; Federal Register 22 (June 4, 1957), 3896.
- ¹²² Fairbanks Daily News-Miner, May 12, 1958, 3; Public Land Order 1667, noted in Federal Register 23 (June 28, 1958), 4811.

above.

- ¹²³ NPS, Alaska Group, *Prospecting and Mining*, 12, NPS TIC Report 184/D-255; Samuel A. King to RD/R4, November 29, 1961, in "Public Lands: Withdrawals and Restorations, 1949-1966" file, Box 32, DARC.

 ¹²⁴ Celia Hunter to Robert Weeden, n.d. (Spring 1970?); Hunter to Weeden, Stewart Brandborg, and Ed Wayburn, n.d. (Spring 1970?); both in Box 17, Northern Alaska Environmental Center Collection, Alaska and Polar Regions Archives, UAF; James H. Anderson to Sen. Ted Stevens, March 6, 1971, in File NR 1-2 (1971), Series 88, RG 01, ASA; NPS, Alaska Group, *Prospecting and Mining*, 2, 12-13. Taylor, in March 1970, was cited for destruction of natural features related to his crew's tree cutting; a year later, he pled guilty to the charge and was given a six-month suspended sentence. That August, he was also cited for following an unauthorized vehicle route during his 1970 trip to the mine; that charge, however, was later dropped. See "McKinley Mercury Mining, Inc. (1965-1987)" folder, Box 36, DARC, DENA Archives.
- ¹²⁵ NPS, Alaska Group, Prospecting and Mining, 1-2, 9-10, 12.
- ¹²⁶ Public Land Law Review Commission, *One Third of the Nation's Land: A Report to the President and to the Congress* (Washington, GPO, 1970), 205.
- ¹²⁷ Gordon Wright to Rep. Nick Begich, May 18, 1971; Wright to Sen. Mike Gravel, May 18, 1971; both in File NR 1-2 (1971), Series 88, RG 01, ASA; Stanley T. Albright to Deborah Vogt, November 22, 1972, in Box 17, Northern Alaska Environmental Center, Inc. Collection, UAF.
- ¹²⁸ Frank Williss, "Do Things Right the First Time:" The National Park Service and the Alaska National Interest Lands Conservation Act of 1980, revised edition (Anchorage, NPS, 2005), 51-52; Alaska Planning Group, Master Plan, Mount McKinley National Park, Alaska, with Proposed Additions (Washington?, NPS, December 1973), 48; APG, Final Environmental Statement, Proposed Mt. McKinley National Park Additions, Alaska (Washington?, NPS, October 1974), 5, 129-30; Director, NPS to Assistant Secretary for Fish and Wildlife and Parks, May 14, 1975, in "Miscellaneous" File, Box 1, Collection 00495, DENA Archives.
- ¹²⁹ S. 2273 in Congressional Record 119 (July 27, 1973), 26358; H.R. 9733 in Congressional Record 119 (July 31, 1973), 27072.
- ¹³⁰ Donald W. Carson and James W. Johnson, *Mo: the Life and Times of Morris K. Udall* (Tucson, Univ. of Arizona Press, 2001), 184-85; S. 425, in *Congressional Record* 120 (December 20, 1974), 41996-97; H.R. 25, in *Congressional Record* 121 (May 20, 1975 and June 10, 1975), 15421, 18008.
- ¹³¹ Anchorage Daily Times, October 6, 1975, 2; Anchorage Daily News, October 7, 1975, 1; Anchorage Daily Times, December 12, 1975, 3; Steve Buskirk field report in "McKinley Mercury Mining, Inc. (1965-1987)" folder, in Box 36, DARC, DENA Archives. Joe Van Horn, in an October 15, 2007 email, notes that the mine was also active in 1976, according to work affidavits in the park's resources files.
- ¹³² H.R. 9540, in *Congressional Record* 121 (September 10, 1975), 28335; S. 2371, in *Congressional Record* 121 (September 18, 1975), 29200-01; *Anchorage Daily Times*, October 20, 1975, 15. In addition to Death Valley, Glacier Bay, and Mount McKinley, the bill also called for the phaseout of new mining in Crater Lake National Park, Organ Pipe National Monument, and Coronado National Memorial. As noted earlier in this chapter, Olympic and Grand Canyon national parks had once sanctioned mining as well. The Olympic park bill, however, called for a five-year phaseout of all new mineral locations in that portion of the park where it was sanctioned. By 1969, active mining had stopped at both Grand Canyon and Olympic. Public Law 75-778 (Olympic National Park Act), in *United States Statutes at Large* 52 (June 29, 1938), 1241; Michael F. Anderson, *Polishing the Jewel: An Administrative History of Grand Canyon National Park* (Grand Canyon Association, Monograph #11, 2000), 40.
- ¹³³ Anchorage Daily Times, October 6, 1975, 2; Anchorage Daily Times, October 7, 1975, 1; Anchorage Daily Times, December 12, 1975, 3. As noted in an NPS press release ("New Mining Regulations Adopted by Park Service," January 26, 1977, in "K3415 Press Releases Departmental, 1976-77" file, Box 1, Collection 00495, DENA Archives), the Mount McKinley antimony mine was one of just four that had been active within NPS units since 1973.
- ¹³⁴ Anchorage Daily News, October 8, 1975, 2; Anchorage Daily Times, October 8, 1975, 23; Stevens to Sandy Kogl, Denali Citizens Council, November 24, 1975, in "K4223 Publications DCC Newsletter" file, Box 1, Collection 00495, DENA Archives; Anchorage Daily Times, December 12, 1975, 1; Congressional Record 121 (September 18, 1975), 29200-01; Congressional Record 122 (February 4, 1976), 2264.
- ¹³⁵ Anchorage Daily Times, issues of February 25, 1976, 20; April 2, 1976, 19; June 2, 1976, 1; and September 3, 1976, 8; NPS, "Parkland Protection Hailed as Park Mining Laws Repealed" (press release), October 8, 1976, in "K3415 Press Releases Departmental, 1976-77" file, Box 1, Collection 00495, DENA Archives.
- ¹³⁶ Sections 3, 4, and 6 of Public Law 94-429, as noted in *United States Statutes at Large* 90 (September 28, 1976), 1342-45.
- ¹³⁷ Section 8 of Public Law 94-429. As called for in this section, the NPS issued a public notice of the one-year requirement in the October 20, 1976 *Federal Register*, page 46357.
- ¹³⁸ S. 2371 Summary, September 14, 1976, in http://thomas.loc.gov; NPS, "Parkland Protection Hailed," see above; Public Law 94-429.
- ¹³⁹ Federal Register 41 (November 11, 1976), 49862-66; Federal Register 42 (January 26, 1977), 4835-41.

- ¹⁴⁰ NPS, "New Mining Regulations," see above.
- ¹⁴¹ Anchorage Daily Times, January 12, 1977, 42.
- ¹⁴² USDI, Environmental Consequences of Mineral Extraction: Glacier Bay National Monument and Mount McKinley National Park and Discussion of Alternatives for Acquisition of Mining Claims and/or Boundary Modification to Reduce Possible Acquisition Costs, Glacier Bay National Monument, Report to the Congress of the United States Prepared in Partial Compliance with Public Law 94-429, January 1979, 113.
- ¹⁴³ USDI, *Environmental Consequences of Mineral Extraction*, 2, 113; BLM, "Complaint (Contest of Mining Claims)," April 16, 1979, in "McKinley Mercury Mining, Inc. (1965-1987)" folder, Box 36, DARC, DENA Archives.
- ¹⁴⁴ USDI, Environmental Consequences of Mineral Extraction, 113.
- ¹⁴⁵ NPS, Environmental Overview and Analysis of Mining Effects, DENA (Denver, the author, September 1981), 164.
- ¹⁴⁶ "McKinley Mercury Mining, Inc. (1965-1987)" folder, Box 36, DARC, DENA Archives.
- ¹⁴⁷ Barry Donnellan to Daniel Kuehn, September 25, 1977, in "Grant" mining claim file (AKFF 034273), NARA ANC; various documents in *USA v. Harold Herning, Norman R. Herning, and Robert Gish*, in Herning Contest Record (AKFF 047031), NARA SP, courtesy of BLM Anchorage; *Fairbanks Daily News-Miner*, March 11, 1980, 6. ¹⁴⁸ *Anchorage Daily Times*, April 1, 1979, F-1; *Anchorage Daily Times*, May 9, 1980, A-1; NPS, *Environmental Overview and Analysis, DENA*, 164; "Alaska Limestone Corporation (1948-1987)" folder, in Box 35, DARC, DENA Archives.
- ¹⁴⁹ Alaska Planning Group, *Master Plan, Mount McKinley National Park* (December 1973), 48; APG, *Final Environmental Statement, Proposed Mt. McKinley National Park Additions* (October 1974), 5, 130. The APG, in its December 1973 draft EISs, recommended that all of the proposed Alaska parklands except one (Yukon-Charley National Rivers) not be opened to new mineral locations and development. Williss, "Do Things Right the First Time," 68.
- ¹⁵⁰ Joint Federal-State Land Use Planning Commission for Alaska, *Land Planning and Policy in Alaska; Volume I, National Interest Lands, Part I* (Anchorage, the Commission, July 1973), III-13-1 to III-13-4; Williss, "Do Things Right the First Time," 60, 87; H.B. 489, in *Alaska House Bill History*, 1975, 227.
- ¹⁵¹ Williss, "Do Things Right the First Time," 88-89; Alaska Department of Fish and Game, Public Law 96-487, Alaska National Interest Lands Conservation Act, Legislative History, Fall 1981; vol. I, pp. 22-23, and vol. III, pp. 11-12 and 36-37. Stevens's bill called for approximately 12 million acres of new national parklands and 56 million acres in cooperative lands; at Mount McKinley, the bill called for 1,130,000 acres of parkland and 1,960,000 acres of cooperative lands.
- ¹⁵² Williss, "Do Things Right the First Time," 93, 97; Cecil D. Andrus's statement in U.S. House of Representatives, "Hearings Before the Subcommittee on General Oversight and Alaska Lands," Serial No. 95-16, Part XVI, September 15, 1977 (Washington, GPO, 1977), 110-15.
- 153 ADF&G, Public Law 96-487, ANILCA Legislative History; vol. II, pp. 201 and 206-08.
- ¹⁵⁴ Williss, "Do Things Right the First Time," 97-100; ADF&G, Public Law 96-487, ANILCA Legislative History; vol. XXXIII, pp. 565-66, 608, 701, and 804-05, 937-38. Sen. Stevens, who had advocated that the Kantishna area be considered as a national recreation area (NRA) rather than part of the park addition, made a statement just after the committee report was issued. He noted that "including the Kantishna area in the expanded Park was a particularly significant error. This historic mining district which still supports a year round community and active gold mines should not be added to the Park. The inholding problems will be enormous and Park designation could spell the end of a way of life for the people of the area. Fortunately, there is a chance for correcting this problem when the special study authorized for this area is completed. However, interim designation as an NRA would make considerably more sense."
- ¹⁵⁵ ADF&G, *Public Law 96-487, ANILCA Legislative History*; vol. III, pp. 808-11; vol. VII, pp. 157-61, 466-67, 469, 608-10.
- 156 Williss, "Do Things Right the First Time," 107-12.
- ¹⁵⁷ Public Law 96-487, as noted in U.S. Statutes at Large 94 (1980), pp. 2384, 2456-57, and 2465.
- ¹⁵⁸ Public Law 96-487, as noted in U.S. Statutes at Large 94 (1980), p. 2383.
- ¹⁵⁹ Proclamation 4616, December 1, 1978, in Federal Register 43 (December 5, 1978), 57035-41.
- ¹⁶⁰ Public Law 94-579 (October 21, 1976), Sec. 314, in U.S. Statutes at Large 90 (1976), 2769-70.
- ¹⁶¹ Federal Register 44 (April 5, 1978), 20426-27.
- ¹⁶² NPS, Environmental Overview and Analysis of Mining, Kantishna Hills, Denali National Monument, Alaska (Denver, the author, September 1980), 8; Russell Chadwick, Gross Mineral Appraisal of MOMC, KATM, and Proposed LACL, September 30, 1975, 11, in BLM File FF-047031.
- ¹⁶³ Anchorage Daily News, July 12, 1983, A-22; NPS, Environmental Overview and Analysis of Mining Effects, DENA (September 1981), 73, 80, 163.
- ¹⁶⁴ Federal Register 44 (February 27, 1979), 11068-69.

- ¹⁶⁵ NPS, Environmental Overview and Analysis, Kantishna Hills, 2; Federal Register 44 (February 27, 1979), 11068. Also see Douglas Warnock to Sam Koppenberg, May 1, 1981, in "Moose/Taybo" folder, and materials in various mining plans of operation folders (1979-1982), Boxes 34 and 35, DARC, DENA Archives. Notices for 16 mining plans of operation are shown in volume 44 (1979) of the Federal Register: June 8, pp. 33162-63; July 2, p. 38681; September 20, p. 54558, and October 15, p. 59297.
- ¹⁶⁶ Larry A. May (Chief, Environmental Investigations Unit, DSC) to Manager, Denver Service Center, "Report on Mining and Mineral-Related Activity...", December 5, 1979, in Box 33, DARC, DENA Archives; Alex Carter interview, September 5, 2007.
- ¹⁶⁷ Whalen to Sen. Ted Stevens, April 20, 1979, in "Public Lands: Lands Acquisition (1950-1990)" file Box 32, DARC, DENA Archives.
- 168 NPS, Environmental Overview and Analysis, Kantishna Hills, 1, 3-4; SAR, 1980, 4.
- ¹⁶⁹ NPS, Environmental Overview and Analysis, Kantishna Hills, 13, 16, 106-14. Ironically, NPS's September 1981 report (Environmental Overview and Analysis of Mining Effects, DENA, p. 11) stated that during the 1980 season there had been 12 active placer operations on 62 claims, plus 4 active lode operations on 10 claims.
- ¹⁷⁰ NPS, Environmental Overview and Analysis, Kantishna Hills, 16-47.
- ¹⁷¹ The Alaska Land Use Council, established by Section 1201 of ANILCA, was composed of federal, state, and Native representatives; its purpose was to conduct studies, advise the Interior Secretary, and make recommendations in a variety of policy areas. The Kantishna Hills/Dunkle Mine study was the only specific study noted in ANILCA.
- ¹⁷² NPS, Environmental Overview and Analysis of Mining Effects, DENA (Denver, the author, September 1981), 9, 162-63.
- 173 Williss, "Do Things Right the First Time," 148.
- ¹⁷⁴ NPS, Final Environmental Impact Statement for the Kantishna Hills/Dunkle Mine Study Report, DENA (Anchorage, the author, December 1984), 12-13.
- ¹⁷⁵ NPS, Environmental Overview and Analysis, DENA, 9. The U.S. Senate, in a November 1979 committee report (Report 96-413, pp. 167-68) stated that the eight lode claims located on the ridge between the Tokositna and Kanikula glaciers were "all located on the very edge of the boundary and are part of watershed that flow outside of the park." Senators, apparently aware that the claim had a small airstrip that could serve as a base of operation for guided hunting parties, recommended in their report that the NPS examine the desirability of making a minor boundary adjustment to exclude those lands from the park. No evidence suggests that these claims were economically viable for their mineral potential.
- ¹⁷⁶ NPS, *Environmental Overview and Analysis, DENA*, 161. Details of the adjudication of 30 Kantishna Hills placer claims were laid out on pp. 138-51 of that document.
- ¹⁷⁷ Ibid., 162-63, plus NPS maps 20008 and 20009, both dated August 1981.
- ¹⁷⁸ According to the *Anchorage Daily News*, July 12, 1983, there were "15 to 20 active placer mines in the Kantishna Hills area."
- ¹⁷⁹ NPS, *Environmental Overview and Analysis, DENA*, 1, 73, 162-63. As noted above, no commercial mining had taken place in the southern portion of the New Park since 1954.

 ¹⁸⁰ *Ibid.*, 14-87.
- ¹⁸¹ Scott Meyer and Ross Kavanagh, "Fish Resources and the Effects of Mining Activities in the Kantishna Hills, Denali National Park, 1982," June 1983; Kenneth Kertel, "Wildlife and the Effects of Mining in the Kantishna Hills, DENA," NPS Research/Resources Management Report AR-2, 1984.
- ¹⁸² Anchorage Daily Times, November 22, 1982, C-2; December 18, 1982, B-5; May 28, 1983, B-9; Anchorage Daily News, May 28, 1983, B-5; Salisbury and Dietz, Inc., "1983 Mineral Resource Studies in the Kantishna Hills and Dunkle Mine Areas, DENA" (three volumes), April 1984.
- ¹⁸³ Federal Register 48 (March 1, 1983), 8599-8600; NPS, Denali National Park and Preserve, Draft Environmental Impact Statement, Kantishna Hills/Dunkle Mine Study, Alaska (Anchorage, the author, May 1983), passim.
- ¹⁸⁴ Anchorage Daily Times, July 7, 1983, C-4; July 11, 1983, B-5; July 12, 1983, B-1; Anchorage Daily News, July 12, 1983, A-22; NPS, Final Environmental Impact Statement for the Kantishna Hills/Dunkle Mine Study Report (December 1984), 285-92; Alaska Land Use Council, Kantishna Hills/Dunkle Mine Study Report (May 1984), 13.
- ¹⁸⁵ Alaska Land Use Council, *Kantishna Hills/Dunkle Mine Study Report*, 11, 17-18; NPS, *Final EIS, Kantishna Hills/Dunkle Mine* (December 1984), 585.
- ¹⁸⁶ Alaska Land Use Council, Kantishna Hills/Dunkle Mine Study Report, 11-13, 15-17; NPS, Final EIS, Kantishna Hills/Dunkle Mine (December 1984), 584.
- ¹⁸⁷ NPS, Final EIS, Kantishna Hills/Dunkle Mine, December 1984, 604.
- ¹⁸⁸ *Ibid.*, 584-89, 599-604; *Anchorage Daily Times*, May 23, 1984, B-6; May 24, 1984, C-1; June 3, 1984, A-1; June 4, 1984, B-1; June 14, 1984, A-1.

- ¹⁸⁹ NPS, Final ElS, Kantishna Hills/Dunkle Mine, December 1984, ix, xiii, 19-26, 67-70; Federal Register 50 (March 22, 1985), 11595; NPS, Draft General Management Plan, DENA, March 1985, 33; NPS, Final General Management Plan, DENA, October 1986, 58.
- ¹⁹⁰ Federal Register 45 (December 3, 1980), 80192-93; Federal Register 47 (August 19, 1982), 36297-98; materials in various mining plans of operation folders (1979-1982), Boxes 34 and 35, DARC, DENA Archives. ¹⁹¹ Anchorage Daily Times, August 10, 1982, B-3; Anchorage Daily News, August 10, 1982, A-1; Anchorage Daily News, August 14, 1982, B-1; various correspondence, "Jim Fuksa, et al. (1982)" folder, Box 36, DARC, DENA Archives.
- ¹⁹² Federal Register 48 (March 25, 1983), 12599-12600; Federal Register 49 (March 30, 1984), 12768-69; Federal Register 49 (April 27, 1984), 18191-92; Federal Register 49 (June 25, 1984), 25907; Federal Register 50 (May 1, 1985), 18580; Federal Register 50 (May 15, 1985), 20298.
- ¹⁹³ T. K. Hinderman, *Plan of Operations, Kantishna Mining Company, Howtay Association Claims 11 through 24, Caribou Creek, DENA*, May 1986, 1; Joe Van Horn interview, August 3, 2007; Steve Carwile interview, November 8, 2007.
- 194 "Claims, Plans of Operation (1983-1984)" folder, Box 35, DARC, DENA Archives;
- ¹⁹⁵ Michael V. Finley to "Dear Claimant and/or Operator," June 4, 1985, in Catalog 9169, DENA Archives.
- ¹⁹⁶ Anchorage Daily Times, July 24, 1985, A-1, A-7; Anchorage Daily News, July 24, 1985, A-1, A-12; Environmental Law Reporter 15 (1985), 21048; Federal Reporter, 2nd Series, vol. 803 (1986), 466.
- ¹⁹⁷ Northern Alaska Environmental Center, et al. v. Donald P. Hodel, et al. (J85-009 Civ.), "Preliminary Injunction," July 22, 1985; William C. Welch to T.J. Koppenberg, August 5, 1985, in Catalog 9169, DENA Archives.
- 198 Anchorage Daily News, December 10, 1985, C-10.
- 199 SAR, 1985, 2; various entries, "Eric Weiler (1984-1985)" folder, Box 36, DARC, DENA Archives.
- ²⁰⁰ T. K. Hinderman, *Plan of Operations, Kantishna Mining Company, Howtay Association Claims 11 through 24, Caribou Creek, DENA*, May 1986, 1; *Federal Register* 51 (November 4, 1986), 40084; Steve Carwille interview, July 23, 2007.
- ²⁰¹ SAR, 1986, 2; Alex Carter interview, September 5, 2007. Initial park staff members included Phil Brease (formerly of the BLM's Glennallen office) and Tom Ford (a former Death Valley NM mining specialist).
- ²⁰² Federal Register 51 (May 7, 1986), 16903; NPS, Draft Environmental Impact Statement, Mining in Denali National Park and Preserve, Alaska (Anchorage, the author, February 1989), 4, 383-85; Bryan Swift to Supt. DENA, December 21, 1987, in Catalog 9169, DENA Archives.
- ²⁰³ NPS, Draft EIS, Mining in DENA (February 1989), 4.
- ²⁰⁴ Ibid., vi, 15-17; NPS, Briefing Report, Draft ElSs, Cumulative Impacts of Mining: DENA, WRST, YUCH, Alaska (March 1989), 15-16, Entry 784, DENA RML; Federal Register 54 (April 13, 1989), 14871.
- ²⁰⁵ Federal Register 54 (May 4, 1989), 19249; Federal Register 54 (June 15, 1989), 25506; NPS, Final Environmental Impact Statement, Volume 1, Mining in Denali National Park and Preserve (Anchorage, the author, April 1990), vii-viii.
- ²⁰⁶ NPS, Final EIS, Mining in DENA, Volume 1 (April 1990), v, 22, 167-71; Federal Register 55 (May 30, 1990), 21949-50; Federal Register 55 (July 2, 1990), 27308; NPS, Record of Decision, Final EIS, Cumulative Impacts of Mining, DENA, August 21, 1990, in DENA Library; Alex Carter interview, September 5, 2007.
- ²⁰⁷ NPS, Draft EIS, Kantishna Hills/Dunkle Mine Study, Alaska (May 1983), viii-xi.
- ²⁰⁸ Alaska Land Use Council, Kantishna Hills/Dunkle Mine Study Report (May 1984), 11-17, VII-1.
- ²⁰⁹ Anchorage Daily Times, June 3, 1984, A-10; June 4, 1984, B-1.
- ²¹⁰ Anchorage Daily Times, July 14, 1984, B-2.
- ²¹¹ Anchorage Daily Times, June 4, 1984, 8-1; NPS, Final EIS, Kantishna Hills/Dunkle Mine Study Report, DENA, December 1984, 609-10.
- ²¹² NPS, Draft General Management Plan, DENA (March 1985), 33-34, 41-43, 63; NPS, General Management Plan, DENA (October 1986), 59-60, 79-81, 98, 203-06.
- ²¹³ Phil Brease, email to author, November 20, 2007.
- ²¹⁴ SAR, 1988, 2; Phil Brease review comments, October 4, 2007. The validity-examination process lasted until 1991, perhaps longer; see SAR, 1991, 11.
- ²¹⁵ NPS, Draft EIS, Mining in DENA (February 1989), 16.
- ²¹⁶ SAR, 1989, Addendum, 2; NPS, Final EIS, Mining in DENA (April 1990), 16.
- ²¹⁷ Bill Sherwonit, "No Going Back," *Alaska Magazine* 56 (April 1990), 68-71; *Anchorage Daily News*, August 13, 1989, F-10.
- ²¹⁸ SAR, 1987, 2, 6; Sherwonit, "No Going Back," 67-68; *Anchorage Daily News*, December 25, 1990, A-1, A-12; Bryan Swift to Supt. DENA, December 21, 1987, in Catalog 9169, DENA Archives.
- ²¹⁹ Bill Sherwonit, "No Going Back," *Alaska* 56 (April 1990), 30-31. Tom Bundtzen, a State of Alaska geologist, agrees with Sherwonit that most gave up the fight. But Paul and Eric Weiler, twin brothers with

- placer claims on Glen Creek, "decided to stay and fight" (according to one reporter) "beginning a course of civil disobedience they believe the founding fathers would have been proud of." *Anchorage Daily News*, December 25, 1990, A-12.
- ²²⁰ NPS, Record of Decision, Final Environmental Impact Statement, Cumulative Effects of Mining, DENA, August 21, 1990, pp. 3-4; Anchorage Daily News, July 6, 1990, C-4. The NPS's acquisition prices had been generated by appraiser Norman Lee in a November 1988 report; see NPS, Draft EIS, Mining in DENA (February 1989), 263-71.
- ²²¹ NPS, Kantishna Resource Management Plan, DENA, July 5, 1990, in Carwile files; New York Times, July 30, 1990, 9; SAR, 1990, 1.
- ²²² SAR, 1991, 8. As noted in the *Anchorage Daily News* (August 13, 1989, F-10), the NPS was particularly interested in the Quigley Ridge property. The site offered a high potential for tourism development, the proliferation of which the agency hoped to avoid.
- ²²³ NPS, Record of Decision, Final EIS, Cumulative Effects of Mining, DENA, August 21, 1990, p. 4.
- ²²⁴ Federal Reporter, 2nd Series, vol. 961 (1992), p. 886; Chris Bockmon email, July 25, 2007.
- ²²⁵ SAR, 1991, 11; Federal Register 56 (July 18, 1991), 33040.

Statement, Entrance Area and Road Corridor, December 1996, 25, 31.

- ²²⁶ Steve Carwile interview, July 23, 2007.
- ²²⁷ Sherwonit, "No Going Back," 31; *Anchorage Daily News*, July 6, 1990, C-4; *New York Times*, July 30, 1990, 9; "RV Park Planned Within Denali," *National Parks* 64 (September/October 1990), 9.
- ²²⁸ SAR, 1990, 2; SAR, 1991, 11; SAR, 1993, 2; *Anchorage Daily News*, June 6, 1992, A-1, A-16; June 13, 1992, B-1, B-3; Steve Carwile interview, November 8, 2007.
- ²²⁹ "NPS Team Examines Denali Mining Claims," National Parks 69 (May/June 1995), 18-19.
- 230 Ibid.; Anchorage Daily News, July 26, 1997, B-3.
- ²³¹ Denali Task Force, *Denali Task Force Report; Findings and Recommendations for the National Park Service Advisory Board*, October 25, 1994, 6.
- ²³² Anchorage Daily News, November 13, 1993, E-9; Frank Murkowski, "Statements on Introduced Bills and Joint Resolutions" for S. 2542, October 7, 1994, in www.thomas.gov; Congressional Record 140 (October 7, 1994), 28991.
- 233 "NPS Team Examines Denali Mining Claims," 18-19; Chuck Gilbert interview, July 24, 2007; Denali Mining Acquisition Task Group to Assistant Secretary for Fish and Wildlife and Parks, "Task Group Report," June 1, 1995, in "Kantishna Legislative Takings, Sec. 12, P.L. 105-83" file, park general files, Lands Division, AKRO.
 234 SAR, 1996, 11; SAR, 1997, 1, 5; Anchorage Daily News, July 26, 1997, B-3; Federal Register 60 (June 28, 1995), 33428; Federal Register 62 (February 24, 1997), 8264; Federal Register 62 (July 14, 1997), 37592.
 235 NPS, Draft Development Concept Plan, Environmental Impact Statement, Entrance Area and Road Corridor, June 1996, 61, 64, 66; NPS, Final Development Concept Plan [and] Abbreviated Final Environmental Impact
- ²³⁶ H.R. 2107, Section 121, as reported in the Senate, July 22, 1997, in www.thomas.gov; Chuck Gilbert interview, July 24, 2007. Purchase prices under this bill would be determined by a judge or jury, and buyout funds would come from a "permanent judgment appropriation" administered by the Department of Justice.

 ²³⁷ Anchorage Daily News, July 26, 1997, 8-1, B-3.
- ²³⁸ Public Law 105-83, (November 14, 1997), Sec. 120, U.S. Statutes at Large 111 (1997), 1564-66; SAR, 1997, 1-2; Anchorage Daily News, November 15, 1997, D-1.
- ²³⁹ NPS, *Denali National Park and Preserve Briefing Presentation: Legislative Taking of Mining Claims*, July 1999, in AKRO Lands Division files; "Alaska Delegation: Many Alaskans Take Advantage of Option to Sell Mining Claims in Denali National Park" (press release), February 13, 1998, in "Kantishna Legislative Takings, Sec. 12, P.L. 105-83" file, park general files, AKRO Lands Division.
- ²⁴⁰ NPS, *Briefing Statement, Mining Claim Acquisitions, DENA*, April 9, 2007, in AKRO Lands Division files; Chuck Gilbert interview, July 19, 2007; Steve Carwile email, July 19, 2007.
- ²⁴¹ Natural Resource Consultants, *Stampede Mine Alaska, Report of Visit*, August 1977, 3, 12.
- ²⁴² SAR, 1980, 4; William E. Brown, *Denali, Symbol of the Alaskan Wild*, 194-95; University of Alaska news release, February 8, 1980, in "11-101, 105-110 Stampede Mine, Ltd." folder, AKRO Lands Division files.
- ²⁴³ Chris Lambert, Stampede Mine Alaska, Potential Benefits as Part of the School of Mineral Industry, University of Alaska, Fairbanks, October 22, 1979; Mark W. Osgood to Ross Kavanagh, June 14, 1984; both in "DENA/Stampede: OL Background Materials" folder, Logan Hovis Collection; Steve Carwile interview, July 23, 2007. Dennis Fradley, with the "Voice of the Times" (Anchorage Daily News, November 13, 1993, E-9), stated that Professor Scott Huang from UAF's School of Mineral Engineering "intended to use the mine for research and education, but the Park Service blocked it by limiting access to foot or by air, by prohibiting the improvement of a trail leading to the site and by requiring an expensive, detailed plan of mining operations just to use the mine for classroom use."
- ²⁴⁴ Brown, *Denali, Symbol of the Alaskan Wild*, 195; Bill Tanner and Bill Brown, *Investigation Report, Stampede Mine, DENA*, ca. May 1987, in "DENA/Stampede: Current Issues, 1993-94" folder, Logan Hovis Collection;

Shannon and Wilson, *Draft Site Inspection, Stampede Mine, DENA* (Fairbanks, the author, March 1995), 4; Mike Shields, "Stampede Mine, 1987, A Brief History of a Failed Explosives Disposal Operation," unpublished manuscript, ca. 1995, Steve Carwile files.

²⁴⁵ Mike Shields, *Stampede Mine, 1987, A Brief History of a Failed Explosives Disposal Operation*, 1995, in Logan Hovis Collection, AKRO; Mike Shields, email to the author, August 2, 2007. Shields served as the agency's regional blasting officer from 1991 through 1996, but his NPS blasting experience began in 1960. His report concluded that "the basic cause of this fiasco was ignorance, and its near cousin, assumed expertise. The NPS people obviously didn't know anything about explosives, and in the face of assumed expertise never seriously questioned it. The [Army], trained to destroy bombs and shells, obviously knew little about [the on-site explosives] and nothing about blast physics.... Neither party ever thought to consult anyone outside their immediate realm, or considered postponing the operation once it started. Together they let assumptions, erroneous information, and the press of time once on the site lead them into disaster."

²⁴⁶ Ted Birkedal (ARO-RCR) to ARD, Resource Services, January 5, 1994; Steve Peterson to Supt. DENA, December 8, 1992, both in "DENA/Stampede: Current Issues, 1993-94" folder, Logan Hovis Collection; U.S. Interior Department, Office of Hearings and Appeals, "Order," IBLA 90-276, June 19, 1990; Steve Carwile interview, July 23, 2007.

²⁴⁷ Charles M. Gilbert to Pete Rutledge, February 11, 1994; Gilbert to Richard H. Follett, June 15, 1994; both in "DENA/Stampede: Current Issues, 1993-94" folder, Logan Hovis Collection; Chuck Gilbert interview, July 24, 2007. The university's holdings consisted of 5 patented claims: 2 placer claims and 3 lode claims.

²⁴⁸ H.R. 4602, Engrossed Amendment as Agreed to by Senate, July 26, 1994; H.R. 4602, Public Print, July 26, 1994, both in www.thomas.gov; *Congressional Record* 140 (July 26, 1994), 17993-94; *Anchorage Daily News*, July 29, 1994, B-4; *Fairbanks Daily News-Miner*, July 31, 1994, B-3; Chuck Gilbert interview, July 24, 2007. The Alaska Land Use Council, in 1988, had first broached the idea of NPS restitution for the damage caused by the April 1987 explosion. The council's resolution was apparently approved by university officials and had been forwarded to the Alaska Congressional Delegation at that time. Curtis McVee to Donald D. O'Dowd, November 22, 1988, in "11-101, 105-110 Stampede Mine, Ltd." folder, AKRO Lands Division files.

²⁴⁹ SAR, 1995, 7, 8; H.R. 1977, Engrossed Amendment as Agreed to by Senate, August 9, 1995; H.R. 1977, Public Print, August 10, 1995, both in www.thomas.gov; *Congressional Record* 141 (August 9, 1995), 22854-55, 22858, 22869.

²⁵⁰ H.R. 2107, Engrossed Amendment as Agreed to by Senate, September 18, 1997; H.R. 2107, Public Print, September 19, 1997; Public Law 105-83, Sec. 136, November 14, 1997, all in www.thomas.gov; NPS, *Briefing Presentation: Legislative Taking of Mining Claims, DENA*, July 1999, 3; *Congressional Record* 143 (September 18, 1997), 19445-48; Steve Carwile interview, July 24, 2007.

- ²⁵¹ Federal Register 42 (January 26, 1977), 4840.
- ²⁵² Materials in various mining plans of operation folders (1979-1982), Boxes 34 and 35, DARC, DENA Archives.
- ²⁵³ SAR, 1987, 1, 3; Joe Van Horn, interview with the author, August 2, 2007.
- ²⁵⁴ SAR, 1989, 3; SAR, 1991, 10-11.
- ²⁵⁵ NPS, Draft ElS, Cumulative Impacts of Mining, vii, 14-22; Final ElS, Cumulative Impacts of Mining, Volume 1, vii, 22.
- ²⁵⁶ NPS, Record of Decision, Final EIS, Cumulative Impacts of Mining, 5.
- ²⁵⁷ Kevin Meyer, "Kantishna Debris Removal 1993, End of the Season Report," in NPS, Kantishna Cleanup 93: Equipment and Debris Cleanup, Drum and Battery Removal on Abandoned and Acquired Mining Properties, DENA (Anchorage, the author, ca. 1993), 1-4.
- ²⁵⁸ SAR, 1997, 4; 1998, 3.
- ²⁵⁹ SAR, 2002, 1; 2003, 32; 2004, 15; 2005; 2006, 21; NPS, "Disturbed Lands Restoration Program," DENA Resource Stewardship Strategy, June 11, 1997 (draft), 106-07, 128; NPS, Briefing Presentation: Reclamation of Disturbed Areas in DENA, July 1999, in DENA Public Affairs files; Steve Carwile interview, November 8, 2007.
 ²⁶⁰ NPS, Environmental Overview and Analysis of Mining Effects, DENA, September 1981, 153; NPS, Final EIS, Kantishna Hills/Dunkle Mine Study Report, December 1984, 143, 145; NPS, "Mining Claims in the Kantishna Hills Study Area" (Drawing 40141A), in NPS, Draft EIS, Cumulative Impacts of Mining, DENA, February 1989, map pocket.
- ²⁶¹ Joy Chamberlin, "Development Threatens the Heart of Denali," *National Parks* 71 (September/October 1997), 19-20; Steve Carwile interview, July 25, 2007; *Anchorage Daily News*, October 2, 1999, E-1.
 ²⁶² Environmental groups felt that the Spruce 4 area was suitable for wilderness, even though Congress had not designated it as wilderness and the NPS, in its 1988 wilderness study, had not recommended the area as a candidate for inclusion in the National Wilderness Preservation System.
- ²⁶³ Chamberlin, "Development," 19-20; Chip Dennerlein, "Regional Report Alaska," *National Parks* 72 (May/June 1998), 16; Katurah Mackay, "Lodge Threatens Park Wilderness," *National Parks* 72 (November/December 1998), 15-16; SAR, 1998, 2.

- ²⁶⁴ Federal Register 63 (March 19, 1998), 13427-28; Federal Register 63 (October 6, 1998), 53694; Federal Register 64 (February 8, 1999), 6115; Federal Register 64 (August 2, 1999), 41944-45.
- ²⁶⁵ NPS, Draft Environmental Impact Statement, Spruce Creek Access, DENA, June 1999, iii; Federal Register 64 (August 2, 1999), 41944-45; Anchorage Daily News, September 15, 1999, A-1.
- ²⁶⁶ Anchorage Daily News, September 15, 1999, A-1.
- ²⁶⁷ Anchorage Daily News, September 15, 1999, A-1; Anchorage Daily News, October 2, 1999, E-1; Anchorage Daily News, November 20, 1999, E-11; NPS, Draft ElS, Spruce Creek Access, Summary 2.
- ²⁶⁸ Federal Register 65 (March 7, 2000), 12028; Elizabeth G. Daerr, "Regional Report, Alaska," *National Parks* 75 (March/April 2001), 20.
- ²⁶⁹ NPS, Final Environmental Impact Statement, Spruce Creek Access, DENA, June 2000, Summary 2; Federal Register 67 (June 6, 2002), 39037.
- ²⁷⁰ Daerr, "Regional Report Alaska," 20; Steve Martin to Jeff Barney, March 1, 2001, in Carwile files.
- ²⁷¹ "Progress in Kantishna Mining Claim Acquisitions," *AK2Day*, February 4, 2002; Ryan Dougherty, "Regional Report," *National Parks* 76 (April-May 2002), 19.
- ²⁷² Federal Register 67 (June 6, 2002), 39037; Anchorage Daily News, June 16, 2002, 8-1.
- ²⁷³ NPS, Environmental Assessment, Spruce Creek Access, DENA, April 2002), iii. 2-1, 2-5.
- ²⁷⁴ "Environmental Assessment for Access to Inholding on Spruce Creek in DENA" (DENA News Release), May 15, 2002, in DENA Public Affairs files; *Federal Register* 67 (June 6, 2002), 39037-38.

Appendix A. Park Visitation, Budget, and Staff, 1981 to Present

Note: Visitation is for calendar years, but budgets are for fiscal years.

| Year | Visitation | Budget | FTE | Year | Visitation | Budget | FTE |
|------|------------|-------------|------|------|------------|-------------|-----|
| 1981 | 256,593 | \$3,058,200 | n.a. | 1994 | 490,311 | \$6,643,000 | 69 |
| 1982 | 321,868 | 3,896,900 | 58 | 1995 | 543,309 | 6,944,000 | 55 |
| 1983 | 346,082 | 4,635,600 | 43 | | | | |
| 1984 | 395,099 | 4,369,800 | 42 | 1996 | 341,385 | 7,163,000 | 66 |
| 1985 | 436,545 | 4,563,500 | 48 | 1997 | 354,278 | 7,385,000 | 72 |
| | | | | 1998 | 372,519 | 7,720,000 | 68 |
| 1986 | 529,749 | 4,398,000 | 42 | 1999 | 386,867 | 8,036,000 | 71 |
| 1987 | 575,013 | 4,910,100 | 46 | 2000 | 363,983 | 9,189,000 | 80 |
| 1988 | 592,431 | 4,914,900 | 56 | | | | |
| 1989 | 543,640 | 5,088,000 | 53 | 2001 | 360,191 | 9,792,000 | 89 |
| 1990 | 546,693 | 5,418,000 | 58 | 2002 | 311,335 | 10,144,000 | 84 |
| | , | , , | | 2003 | 360,189 | 10,949,000 | 96 |
| 1991 | 558,870 | 5,803,000 | 66 | 2004 | 404,236 | 10,687,000 | 101 |
| 1992 | 503,674 | 6.056.000 | 63 | 2005 | 403,520 | 10,842,000 | 102 |
| 1993 | 505,565 | 6,696,000 | 63 | 2006 | 415,935 | 10,549,000 | 169 |

NOTES:

Regarding staffing, "FTE" indicates full-time equivalent personnel. Using this system, 4 seasonal employees who each work three months per year would count as one FTE, and n.a. means not available.

Visitation data are for recreational visits only. Until 1995, recreational visitation also included some incidental traffic near the east end of the park road. As noted in Chapter 10, NPS personnel adjusted the figures beginning in 1996 to more narrowly define recreational visitors.

Budgets are for operations (ONPS) accounts only. In various years, additional budgetary allotments have been made to the park in other accounting classifications.

Sources: For visitation, see various editions of the NPS, *Public Use of the National Parks: A Statistical Report* and the agency's Public Use Statistics Office website, http://www2.nature.nps.gov/stats. For budget and staffing data, see various annual editions of the U.S. Department of the Interior publication *Budget Justifications: National Park Service*.

Appendix B. Selected List of Park Employees, 1980 to present

Management:

Superintendents:

Frank J. Betts, August 1978-February 1980
Charles A. (Chuck) Budge (acting), March 1980-August 1980
Robert C. (Clay) Cunningham, August 1980-March 1989
Thomas W. Griffiths (acting), March 1989-June 1989
Russell W. Berry, June 1989-October 1994
Stephen P. Martin, October 1994-January 2002 (acting, October 1994-March 1995)
Diane Chung (acting), January 2002-February 2002
Paul R. Anderson, February 2002-November 2007
Elwood Lynn (acting), November 2007-present

Management Assistant:

Ralph Tingey, 1981-1990

Deputy Superintendent:

Linda (Toms) Buswell, 1989-1999 Diane Chung, 2000-2004

Assistant Superintendents:

Philip Hooge (Resources, Science and Learning), 2003-present Elwood Lynn (Operations), 2004-2007

Rangers:

Chief Park Rangers:

Gary N. Brown, 1973-1981 Thomas W. Griffiths, 1981-1989 Ken Kehrer, Jr., 1989-2000 Tom Habecker (acting), 2000-2001 Nick Herring, 2001-2003 Tom Habecker (acting), 2003 Peter Armington, 2003-present

North District Rangers:

Tom Habecker, 1990-2005

East District Rangers (Savage Subdistrict, 1990-present):

Robert A. (Bob) Gerhard, 1976-1984 Ken Kehrer, Jr., 1984-1989 Gerry Reynolds, 1991-1994 Brenda Bussard, 1995 (acting) Chuck Passek, 1995-2000 Ann Marie Chytra, 2000-2004

West District Rangers (Wonder Lake Subdistrict, 1990-present):

Craig Stowers, 1980-1981 Brian Swift, 1981-1986 Bernadette Kane, 1991 Tom Chisdock, 1991-1995 Sandra Kogl, 1995 Mark Motsko, 1995-2002

South District Rangers (based in Talkeetna):

Robert R. (Bob) Seibert, 1984-1991 J.D. Swed, 1992-2000 Daryl Miller, 2000-present

Interpreters and Resource Managers:

Chief of Interpretation:

Bill Truesdell, 1975-1981 Doug Cuillard, 1982-1987 George Wagner, 1987-1991 Thea Nordling, 1992-1996 Lisa Eckert, 1996-1998 Blanca Stransky, 1999-2006 Ingrid Nixon, 2006-present

Kennels Managers: Sandra Kogl, 1975-1989 Gary Koy, 1989-2002 Karen Fortier, 2002-present

Resource Management Specialists:
John Dalle-Molle, 1978-1991
Jim Benedict, 1991-1992
Gordon Olson, 1992-2003 (Chief of Resources)

Maintenance and Operations:

Chiefs of Maintenance (Maintenance General Foremen prior to 1985):
Dickie Stansberry, 1977-1982
Jack O'Neale, 1982-1985
Bob Butcher, 1985-1991
Mike Shields, 1991-1996
Elwood Lynn, 1996-2005
Dutch Scholten, 2005-present

Roads and Trails Maintenance Foremen: James Rogers, 1973-1992 Dick McKenzie (acting), 1992-1993 Bill Friesen, 1993-2000 Brad Ebel (West District), 2000-present Tim Taylor (East District), 2000-present

<u>Buildings and Utilities Foremen:</u> Larry Keith, 1981-1994 Hershel Lester, 1994-2002 George Keers, 2002-2007 Greg Timeche (acting), 2007 Juan Gomez, 2007-present

Fleet Managers: Bill Friesen, 2000-present

<u>Trails Foremen:</u> Chuck Tomkiewicz, 2005-present

Administration:

Administration Chiefs: Beth Scheen, 1970s-1982 Raymond Kremer, 1982-1991 Joanne Timmins, 1992-1996 Marcus Hathaway, 1996-1999 Julie Wilkerson, 2000-present

Concessions Chiefs:
Jane Anderson, 1985-1988
JoAnn Unruh, 1988-1989
Dorothy (Dottie) Anderson, 1989-1992
Dave Nemeth, 1992-1996
Chris Jones, 1996-1998
Mary Wysong (acting), 1998-1999
Nick Hardigg, 1999-2002
Mary Wysong (acting), 2002-2003
Donna Sisson, 2003-present

Planning Chiefs: Nancy Swanton, 1996-2001 Mike Tranel, 2002-2008

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A Note About Sources

During the preparation of this second administrative history volume, the author attempted (within necessary time and budgetary constraints) to locate and use a broad range of source materials that would provide a serviceable park management history. Soon after he began his research, he recognized that the volume of parkrelated materials was too great to allow full access to them all. Many materials, therefore, were skipped. Inasmuch as many of these records are located in the Headquarters-"C Camp" area of Denali National Park and Preserve—in its library, its museum (which contains the park archives), in the superintendent's office building and in numerous division offices-it was quickly recognized that gaining access to many of these materials would be a complex undertaking. Because the author lived in Anchorage, 240 miles south of park headquarters, any future researcher into the park's history should be able to find a wealth of data at the park that was left untapped for this study by visiting the park and seeking out various catalogued and uncatalogued archival materials.

It was the author's good fortune that historian Kristen Griffin, as part of an earlier effort, was able to assemble a wide range of park-related historical materials and make them accessible for this study. Ms. Griffin plumbed records at the park, at the National Archives, and elsewhere, and she methodically and carefully provided exact documentation for the overwhelming majority of source materials. A few agency records, however, could not be attributed to a specific bibliographic source. The author, in this case, decided to categorize each of these records by folder (when known) and then to give its bibliographic repository as the "Denali Administrative History Collection." These materials—and in fact all of the materials gathered for this study—are in the Denali Administrative History Collection. which is now located in the museum archives at Denali National Park and Preserve.

When the author began investigating park records, he recognized that some historical records at the park (as alluded to above) were uncatalogued and poorly organized. Many boxes of records dating from the 1950s through the 1990s, for example, were found among heating equipment in the basement of the building where the superintendent's office is located, and some scattered, uncatalogued historical records were found in the park museum archives. So far as is known, these records still remain at these loca-

tions, although plans call for them to be eventually moved and curated. Records that were used from these locations, specifically those pertaining to park planning and infrastructure projects, are not referred to by collection name; instead, they are referenced to the Denali Administrative History Collection.

One major collection encountered in the park museum was Catalog Number 9169. This massive data set, containing more than 30 boxes of park administrative records, includes materials as early as 1917 and as late as 2001; more than three-quarters of this material, however, dates from the 1960s and 1970s. When research began for this study, the records comprising this collection were uncatalogued. In order to properly classify and curate these records, these and similar materials were brought to the Alaska Regional Office's curatorial unit in Anchorage during the summer of 2004, after which curator Nicole Jackelen began processing them. The much-needed curation of this newly-expanded collection is now complete, and thus only scattered materials used in this study are referenced as part of the "old" Catalog 9169. The collection's reorganization, moreover, means that most if not all references in the present study to box numbers in Catalog 9169 are no longer valid. The fruit of Ms. Jackelen's labor will be beneficial for years to come; any future researchers interested in the history of park administration and management will have a large trove of well-organized, relatively untouched records to peruse.

In addition to the records from Catalog 9169, tomorrow's historians will have access to many other avenues of not-yet-analyzed archival material. For example, the park has several substantial archives-such as the Grant Pearson, Earl Pilgrim, and Harry Liek collections, plus a large assemblage of ranger and interpretive reports, research files, and an impressive array of historical photographs—which were largely bypassed for this study. Researchers for this study combed a broad range of records in three National Archives branches, but many NARA records-from both the National Park Service (RG 79) and from other record groups—have not been perused. The excellent Bill Brown Collection (Catalog 6857) has been perused, but by no means exhaustively. Future researchers will quickly recognize that many Denali articles, both in general-interest magazines and technical journals, were not consulted during the preparation of this report. And

the oral history field has barely been scratched; while researchers for this study interviewed various park superintendents and a few additional agency personnel, future historians will greatly benefit by interviewing a broad range of other park and regional-office employees, concession employees, state and borough officials, incidental business permit holders, leaders of park advocacy groups, and others who have played a role over the years in either carrying out or challenging the agency's mission.

It is recommended that all those interested in investigating the park's records first contact either Denali's museum specialist, Jane Lakeman, or its cultural resource specialist, Jane Bryant. Ms. Lakeman is in an excellent position to steer researchers toward the wealth of park historical materials within her purview, while Ms. Bryant is herself a storehouse of park history, both from the projects she has undertaken and from her personal experiences during her 40-odd years working in the park and its vicinity.

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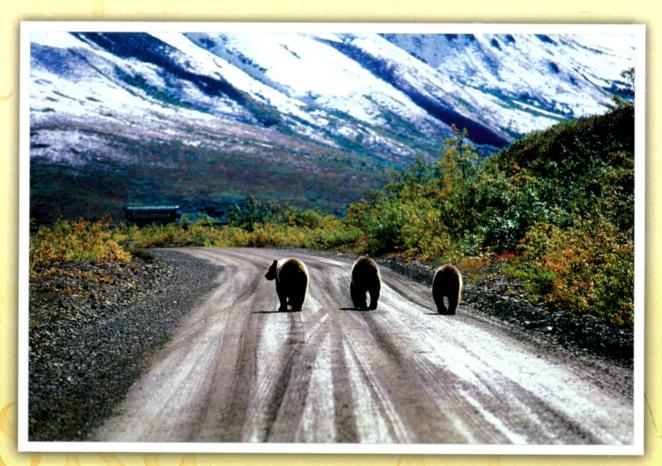
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